aiwa
SERVICE

FR-TC5000 UC(S)
FR-TC5500 U(S)

SERVICE MANUAL

CD CLOCK RADIO

BASIC CD MECHANISM: BZG-4 AB2NC1

aiwa

S/M Code No. 09-028-454-9N1

DATA

SPECIFICATIONS -1/1

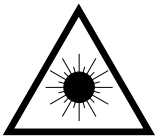
<Tuner section>	
Frequency range	FM: 87.5 ~ 108.1 MHz (200 kHz steps) AM: 530 ~ 1,710 kHz (10 kHz steps)
Antenna	FM: Wire antenna AM: Ferrite bar antenna
<CD player section>	
Tracking system	3-beam laser
Laser pickup	Semiconductor laser
D/A conversion	8-times oversampling digital filter + 1-bit DAC
Frequency response	20 ~ 20,000 Hz
<Common section>	
Power source	AC 120 V, 60 Hz
Output	1,000 mW + 1,000 mW (JEITA)
Power consumption	14 W
Speaker	66 mm, 8 ohms (2)
Maximum outside dimensions (W × H × D)	
	216 × 193 × 261 mm (8 5/8 × 7 5/8 × 10 3/8 in.) (excluding projecting parts and controls)
Weight	Approx. 2.85 kg (6 lbs. 5 oz.) (excluding the backup battery)

• Design and specifications are subject to change without notice.

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING -1/1

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING!!
WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.
Advarsel: Usynlig laserståling vedåbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsÊttelse for stråling.

VAROITUS!
Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saataa altistaa käyt-täjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

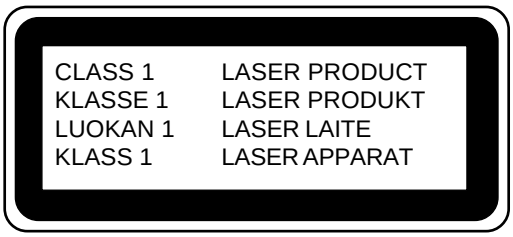
VARNING!
Om apparaten används på annat sätt än vad som specificeras i denna bruksanvising, kan användaren utsättas för osynling laserstrålning, som överskrider gränsen för laserklass 1.

CAUTION
Use of controls or adjustments or performance of procedures other than those specified herin may result in hazardous radiation exposure.

ATTENTION
L'utillisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL
Usynlig laserståling ved åbning, når sikkerhedsafbrydereer ude af funktion. Undgå udsættelse for stråling.

This Compact Disc player is classified as a CLASS 1 LASER product.
The CLASS 1 LASER PRODUCT label is located on the rear exterior.

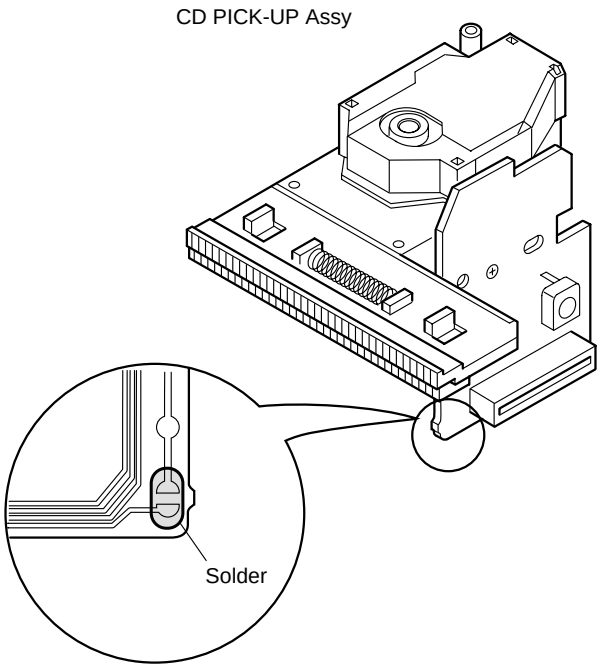


Precaution to replace Optical block

(BZL-5 A1NF)

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use care the clothes do not touch the diode.

1) After the connection, remove solder shown in right figure.



ACCESSORIES PARTS LIST -1/1

! = ⚠ SAFTY PARTS
C = Components marked
All components used on this model at the production line are shown in this service manual.
However, please note that not all components will be available as spare parts for after-sales service.
Components marked S and O are designated as spare parts for service and will be stocked at the spare parts centers.
Components marked X and R are not designated as spare parts for after sales service, and will not be stocked at the spare parts centers.

UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL	
						FR-TC5000 UCSC	FR-TC5500 USC
		O	AS1001	8C-RD2-901-010	IB,(U,3L)	a	.
		O	AS1001	8C-RD2-911-010	IB,(U,ESF,5500)	.	b
		O	AS1002	8C-RD2-951-110	REMOTE CONTROL HANDSET RC-CAF	.	b

ELECTRICAL PARTS LIST - 1/8

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UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL FR-TC5000 UCSC	FR-TC5500 USC
CD		O	C 0101	87-010-264-040	CAP,E 100-10V	a	b
CD		O	C 0102	87-010-264-040	CAP,E 100-10V	a	b
CD		X	C 0103	87-012-274-080	C-CAP,0.001UF-50V	a	b
CD		X	C 0104	S5-224-820-160	C-CAP,0.22UF-16V	a	b
CD		X	C 0105	87-012-286-080	C-CAP,0.01-25V	a	b
CD		X	C 0121	87-012-286-080	C-CAP,0.01-25V	a	b
CD		X	C 0122	87-012-286-080	C-CAP,0.01-25V	a	b
CD		X	C 0123	S5-473-120-250	C-CAP,0.047-25V	a	b
CD		X	C 0124	S5-223-120-500	C-CAP,0.022-50V	a	b
CD		X	C 0125	87-010-305-080	C-CAP,470PF-50V	a	b
CD		O	C 0126	87-A10-260-080	C-CAP,0.1-16	a	b
CD		O	C 0127	87-010-264-040	CAP,E 100-10V	a	b
CD		O	C 0128	87-010-264-040	CAP,E 100-10V	a	b
CD		X	C 0129	S5-333-120-250	C-CAP,0.033-25V	a	b
CD		X	C 0130	S5-222-120-500	C-CAP,0.0022UF-50V	a	b
CD		O	C 0131	87-A10-260-080	C-CAP,0.1-16	a	b
CD		O	C 0132	87-A10-260-080	C-CAP,0.1-16	a	b
CD		O	C 0133	87-A10-260-080	C-CAP,0.1-16	a	b
CD		X	C 0134	S6-151-520-500	C-CAP,150PF-50V	a	b
CD		O	C 0135	87-015-696-080	CAP,E 2.2-50V	a	b

UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL FR-TC5000 UCSC	FR-TC5500 USC
CD		O	C 0136	87-A10-260-080	C-CAP,0.1-16	a	b
CD		X	C 0137	87-012-286-080	C-CAP,0.01-25V	a	b
CD		X	C 0139	S6-151-520-500	C-CAP,150PF-50V	a	b
CD		X	C 0140	S5-473-120-250	C-CAP,0.047-25V	a	b
CD		O	C 0141	87-010-244-040	CAP,E 22-16V	a	b
CD		O	C 0142	87-010-497-080	CAP,E 4.7-35V	a	b
CD		X	C 0143	S5-153-120-500	C-CAP,0.015P-50V	a	b
CD		O	C 0144	87-010-264-040	CAP,E 100-10V	a	b
CD		X	C 0145	87-012-286-080	C-CAP,0.01-25V	a	b
CD		O	C 0153	87-010-401-010	CAP,E 1-50V	a	b
CD		X	C 0155	87-012-286-080	C-CAP,0.01-25V	a	b
CD		X	C 0156	S5-333-120-250	C-CAP,0.033-25V	a	b
CD		X	C 0157	87-012-286-080	C-CAP,0.01-25V	a	b
CD		X	C 0158	S5-333-120-250	C-CAP,0.033-25V	a	b
CD		X	C 0160	S6-330-520-500	C-CAP,33PF-50V	a	b
CD		X	C 0161	S5-272-120-500	C-CAP,0.0027-50V	a	b
CD		O	C 0181	87-010-234-070	CAP,E 4-16V	a	b
CD		X	C 0182	87-012-286-080	C-CAP,0.01-25V	a	b
CD		X	C 0185	S5-104-821-250	C-CAP,0.1-25	a	b
CD		X	C 0191	S5-473-120-250	C-CAP,0.047-25V	a	b

UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL FR-TC5000 UCSC	FR-TC5500 USC
CD		X	C 0192	S5-681-120-500	C-CAP,680P-50V	a	b
CD		X	C 0193	S5-104-821-250	C-CAP,0.1-25	a	b
CD		X	C 0194	S6-221-520-500	C-CAP,220PF-50V	a	b
CD		X	C 0195	S5-104-821-250	C-CAP,0.1-25	a	b
CD		X	C 0197	87-012-286-080	C-CAP,0.01-25V	a	b
CD		X	C 0199	87-012-282-080	C-CAP,0.0047-50V	a	b
CD		X	C 0201	S5-104-821-250	C-CAP,0.1-25	a	b
CD		O	C 0202	87-010-075-040	CAP,E 10-16V	a	b
CD		O	C 0203	87-010-075-040	CAP,E 10-16V	a	b
CD		X	C 0206	87-012-274-080	C-CAP,0.001UF-50V	a	b
CD		O	C 0221	87-010-401-010	CAP,E 1-50V	a	b
CD		X	C 0223	S5-681-120-500	C-CAP,680P-50V	a	b
CD		X	C 0224	S5-681-120-500	C-CAP,680P-50V	a	b
CD		X	C 0225	S6-151-520-500	C-CAP,150PF-50V	a	b
CD		X	C 0226	S6-151-520-500	C-CAP,150PF-50V	a	b
CD		X	C 0228	87-012-172-080	C-CAP,10PF-50V	a	b
CD		X	C 0229	87-012-172-080	C-CAP,10PF-50V	a	b
CD		X	C 0230	87-012-286-080	C-CAP,0.01-25V	a	b
CD		X	C 0231	S5-104-821-250	C-CAP,0.1-25	a	b
CD		O	C 0234	87-010-370-080	CAP,E 330-6.3	a	b

UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL FR-TC5000 UCSC	FR-TC5500 USC
CD		X	C 0235	87-012-286-080	C-CAP,0.01-25V	a	b
CD		X	C 0236	S5-104-821-250	C-CAP,0.1-25	a	b
CD		X	C 0237	S5-331-120-500	C-CAP,330PF-50V	a	b
CD		X	C 0251	S5-104-821-250	C-CAP,0.1-25	a	b
CD		O	C 0252	87-010-221-010	CAP,E 470-10V	a	b
CD		O	C 0253	87-010-236-010	CAP,E 1000-10V	a	b
CD		X	C 0254	87-012-286-080	C-CAP,0.01-25V	a	b
CD		O	C 0255	87-010-221-010	CAP,E 470-10V	a	b
CD		X	C 0256	87-012-286-080	C-CAP,0.01-25V	a	b
CD		O	C 0258	87-010-264-040	CAP,E 100-10V	a	b
CD		X	C 0259	S5-104-821-250	C-CAP,0.1-25	a	b
CD		X	C 0260	S5-104-821-250	C-CAP,0.1-25	a	b
CD		X	C 0261	S5-104-821-250	C-CAP,0.1-25	a	b
CD		X	C 0270	87-012-286-080	C-CAP,0.01-25V	a	b
CD		X	C 0271	S5-104-821-250	C-CAP,0.1-25	a	b
CD		X	C 0272	S5-104-821-250	C-CAP,0.1-25	a	b
CD		O	CN 0101	87-A60-424-010	FFC CONN,16P P=1MM	a	b
CD		O	CN 0201	S0-062-320-400	FFC CONN,4P PITCH=1MM	a	b
CD		O	CN 0251	S0-096-040-600	FFC CONN,6P IMSA-9604	a	b
CD		O	CN 0252	SP-HS0-200-200	HEADER CTL 2 PINS PHS-02 PITC	a	b

ELECTRICAL PARTS LIST - 2/8

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UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL FR-TC5000 UCSC	FR-TC5500 USC
CD		O	D 0101	87-020-027-080	C-DIODE,1SS184	a	b
CD		O	D 0221	87-020-027-080	C-DIODE,1SS184	a	b
CD		O	D 0254	87-020-027-080	C-DIODE,1SS184	a	b
CD		O	FFC0101	8B-ZG4-604-010	FF-CABLE,16P 1.0 220MM	a	b
CD		O	FFC0201	8B-ZG4-602-010	FF-CABLE,4P 1.0 220MM	a	b
CD		O	FFC0251	88-906-121-110	FF-CABLE,6P	a	b
CD		S	IC 0101	87-A20-547-010	IC,CXA1992AR	a	b
CD		S	IC 0161	87-A20-546-010	IC,CXD2589Q	a	b
CD		S	IC 0251	87-A20-445-010	IC,BA5936S	a	b
CD		X	JR 0122	88-108-000-080	C-RES,0 -1/16W	a	b
CD		X	JR 0138	88-108-000-080	C-RES,0 -1/16W	a	b
CD		X	JR 0139	88-108-000-080	C-RES,0 -1/16W	a	b
CD		X	JR 0181	88-108-000-080	C-RES,0 -1/16W	a	b
CD		X	JR 0182	88-108-000-080	C-RES,0 -1/16W	a	b
CD		X	JR 0191	88-108-000-080	C-RES,0 -1/16W	a	b
CD		X	JR 0229	88-108-000-080	C-RES,0 -1/16W	a	b
CD		X	JR 0231	S3-000-510-180	C-RES,0-1/8W	a	b
CD		X	JR 0251	S3-000-510-180	C-RES,0-1/8W	a	b
CD		X	JR 0252	88-108-000-080	C-RES,0 -1/16W	a	b
CD		X	JR 0261	S3-000-510-180	C-RES,0-1/8W	a	b

UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL FR-TC5000 UCSC	FR-TC5500 USC
CD		X	JR 0262	S3-000-510-180	C-RES,0-1/8W	a	b
CD		X	JR 0263	S3-000-510-180	C-RES,0-1/8W	a	b
CD		O	L 0102	87-005-196-080	INDUCTOR,10UH	a	b
CD		O	L 0201	S0-103-372-010	COIL,3.3UH	a	b
CD		O	L 0231	87-005-196-080	INDUCTOR,10UH	a	b
CD		O	L 0252	87-005-196-080	INDUCTOR,10UH	a	b
CD		O	L 0301	87-003-147-010	COIL,22UH	a	b
CD		O	Q 0101	89-113-625-080	C-TR,2SA1362GR	a	b
CD		O	Q 0102	87-026-239-080	C-TR,DTC114TK/TKA	a	b
CD		O	Q 0103	87-026-239-080	C-TR,DTC114TK/TKA	a	b
CD		O	Q 0104	87-026-239-080	C-TR,DTC114TK/TKA	a	b
CD		S	Q 0105	89-333-266-080	C-TR,2SC3326B	a	b
CD		S	Q 0106	89-333-266-080	C-TR,2SC3326B	a	b
CD		S	Q 0251	89-112-134-080	TR,2SA1213Y	a	b
CD		S	Q 0252	87-A30-432-040	TR,DTC124XKA	a	b
CD		S	Q 0253	87-A30-432-040	TR,DTC124XKA	a	b
CD		S	Q 0254	87-A30-075-080	TR,2SA1235	a	b
CD		S	Q 0255	87-A30-075-080	TR,2SA1235	a	b
CD		O	Q 0256	87-026-239-080	C-TR,DTC114TK/TKA	a	b
CD		X	R 0101	S3-100-520-160	C-RES,10-1/16W	a	b
CD		X	R 0102	S3-682-520-160	C-RES,6.8K-1/16W	a	b
CD		X	R 0103	S3-682-520-160	C-RES,6.8K-1/16W	a	b
CD		X	R 0104	88-108-153-080	C-RES,15K-1/16W	a	b
CD		X	R 0105	88-108-153-080	C-RES,15K-1/16W	a	b
CD		X	R 0106	88-108-153-080	C-RES,15K-1/16W	a	b
CD		X	R 0107	S3-682-520-160	C-RES,6.8K-1/16W	a	b
CD		X	R 0108	S3-682-520-160	C-RES,6.8K-1/16W	a	b
CD		X	R 0109	S3-682-520-160	C-RES,6.8K-1/16W	a	b
CD		X	R 0110	S3-682-520-160	C-RES,6.8K-1/16W	a	b
CD		X	R 0111	88-108-153-080	C-RES,15K-1/16W	a	b
CD		X	R 0112	S3-820-520-160	C-RES,82-1/16W	a	b
CD		X	R 0113	S0-222-510-160	RES,2.2K-1/16W	a	b
CD		X	R 0114	S0-222-510-160	RES,2.2K-1/16W	a	b
CD		X	R 0115	S3-821-520-160	C-RES,820-1/16W	a	b
CD		X	R 0116	S3-821-520-160	C-RES,820-1/16W	a	b
CD		X	R 0117	S3-472-520-160	C-RES,4.7K-1/16W	a	b
CD		X	R 0118	88-108-154-080	C-RES,150K-1/16W	a	b
CD		X	R 0119	88-108-103-080	C-RES,10K-1/1	a	b
CD		X	R 0120	S3-682-520-160	C-RES,6.8K-1/16W	a	b
CD		X	R 0121	88-108-104-080	C-RES,100K-1/	a	b
CD		X	R 0122	S3-682-520-160	C-RES,6.8K-1/16W	a	b
CD		X	R 0123	S3-334-520-160	C-RES,330K-1/16W	a	b
CD		X	R 0124	88-108-473-080	C-RES,47K-1/16W	a	b
CD		X	R 0125	S3-183-520-160	C-RES,18K-1/16W	a	b
CD		X	R 0126	S3-183-520-160	C-RES,18K-1/16W	a	b
CD		X	R 0127	S3-472-520-160	C-RES,4.7K-1/16W	a	b
CD		X	R 0131	S3-684-520-160	C-RES,680K-1/16W	a	b
CD		X	R 0132	S3-683-520-160	C-RES,68K-1/16W	a	b
CD		X	R 0133	S3-393-520-160	C-RES,39K-1/16W	a	b
CD		X	R 0134	88-108-474-080	C-RES,470K-1/16W	a	b
CD		X	R 0136	S3-823-520-160	C-RES,82K-1/16W	a	b
CD		X	R 0137	S3-683-520-160	C-RES,68K-1/16W	a	b
CD		X	R 0141	S3-823-520-160	C-RES,82K-1/16W	a	b
CD		X	R 0142	88-108-153-080	C-RES,15K-1/16W	a	b
CD		X	R 0143	S3-183-520-160	C-RES,18K-1/16W	a	b
CD		X	R 0144	88-108-473-080	C-RES,47K-1/16W	a	b
CD		X	R 0145	88-108-104-080	C-RES,100K-1/	a	b
CD		X	R 0146	S3-563-520-160	C-RES,56K-1/16W	a	b
CD		X	R 0147	88-108-102-080	C-RES,1K-1/16	a	b
CD		X	R 0148	88-108-102-080	C-RES,1K-1/16	a	b

ELECTRICAL PARTS LIST - 3/8

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UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL FR-TC5000 UCSC	FR-TC5500 USC
CD		X	R 0149	88-108-102-080	C-RES,1K-1/16	a	b
CD		X	R 0151	88-108-105-080	C-RES,1M-1/16W	a	b
CD		X	R 0152	88-108-153-080	C-RES,15K-1/16W	a	b
CD		X	R 0153	88-108-102-080	C-RES,1K-1/16	a	b
CD		X	R 0154	S3-123-520-160	C-RES,12K-1/16W	a	b
CD		X	R 0156	S3-225-520-160	CHIP RESISTOR 2.2 Mohm +-5% 1	a	b
CD		X	R 0157	S3-225-520-160	CHIP RESISTOR 2.2 Mohm +-5% 1	a	b
CD		X	R 0158	S3-155-520-160	CHIP RESISTOR 1.5 Mohm +-5% 1	a	b
CD		X	R 0181	88-108-104-080	C-RES,100K-1/	a	b
CD		X	R 0192	S3-332-520-160	C-RES,3.3K-1/16W	a	b
CD		X	R 0193	S3-122-520-160	C-RES,1.2K-1/16W	a	b
CD		X	R 0194	88-108-103-080	C-RES,10K-1/1	a	b
CD		X	R 0195	88-108-105-080	C-RES,1M-1/16W	a	b
CD		X	R 0196	S3-224-520-160	C-RES,220K-1/16W	a	b
CD		X	R 0197	88-108-104-080	C-RES,100K-1/	a	b
CD		X	R 0201	S3-272-520-160	C-RES,2.7K-1/16W	a	b
CD		X	R 0202	S3-272-520-160	C-RES,2.7K-1/16W	a	b
CD		X	R 0203	S3-682-520-160	C-RES,6.8K-1/16W	a	b
CD		X	R 0204	S3-682-520-160	C-RES,6.8K-1/16W	a	b
CD		X	R 0211	S0-103-510-160	RES,10K-1/16W (1	a	b

UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL FR-TC5000 UCSC	FR-TC5500 USC
CD		X	R 0212	S0-103-510-160	RES,10K-1/16W (1	a	b
CD		X	R 0213	S0-103-510-160	RES,10K-1/16W (1	a	b
CD		X	R 0214	S0-103-510-160	RES,10K-1/16W (1	a	b
CD		X	R 0215	S0-103-510-160	RES,10K-1/16W (1	a	b
CD		X	R 0216	S0-103-510-160	RES,10K-1/16W (1	a	b
CD		X	R 0217	S0-103-510-160	RES,10K-1/16W (1	a	b
CD		X	R 0218	S0-103-510-160	RES,10K-1/16W (1	a	b
CD		X	R 0219	S0-103-510-160	RES,10K-1/16W (1	a	b
CD		X	R 0220	S3-222-520-160	C-RES,2.2K-1/16W	a	b
CD		X	R 0221	S3-224-520-160	C-RES,220K-1/16W	a	b
CD		X	R 0222	S3-123-520-160	C-RES,12K-1/16W	a	b
CD		X	R 0223	S3-123-520-160	C-RES,12K-1/16W	a	b
CD		X	R 0224	S3-123-520-160	C-RES,12K-1/16W	a	b
CD		X	R 0225	88-108-104-080	C-RES,100K-1/	a	b
CD		X	R 0226	S3-123-520-160	C-RES,12K-1/16W	a	b
CD		X	R 0227	S3-123-520-160	C-RES,12K-1/16W	a	b
CD		X	R 0228	S3-123-520-160	C-RES,12K-1/16W	a	b
CD		X	R 0230	S3-330-520-160	C-RES,33-1/16W	a	b
CD		X	R 0253	88-108-479-080	C-RES,4.7-1/16W	a	b
CD		X	R 0254	S3-228-530-120	C-RES,2.2-1/2W	a	b

UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL FR-TC5000 UCSC	FR-TC5500 USC
CD		X	R 0255	S3-682-520-160	C-RES,6.8K-1/16W	a	b
CD		X	R 0256	S3-682-520-160	C-RES,6.8K-1/16W	a	b
CD		X	R 0257	S3-273-520-160	C-RES,27K-1/16W	a	b
CD		X	R 0258	S3-273-520-160	C-RES,27K-1/16W	a	b
CD		X	R 0259	S0-103-510-160	RES,10K-1/16W (1	a	b
CD		X	R 0260	88-108-103-080	C-RES,10K-1/1	a	b
CD		X	R 0262	S3-100-510-180	C-RES,10-1/8W	a	b
CD		X	R 0263	S3-100-510-180	C-RES,10-1/8W	a	b
CD		X	R 0265	S3-472-520-160	C-RES,4.7K-1/16W	a	b
CD		X	R 0266	S3-682-520-160	C-RES,6.8K-1/16W	a	b
CD		X	R 0267	88-108-471-080	C-RES,470-1/16W	a	b
CD		X	R 0268	S3-682-520-160	C-RES,6.8K-1/16W	a	b
CD		X	R 0269	88-108-103-080	C-RES,10K-1/1	a	b
CD		X	R 0270	S3-822-520-160	C-RES,8.2K-1/16W	a	b
CD		X	R 0271	S3-100-520-160	C-RES,10-1/16W	a	b
CD		X	R 0272	S3-100-520-160	C-RES,10-1/16W	a	b
CD		X	R 0273	S0-478-510-160	RES,4.7-1/16W	a	b
CD		X	R 0274	S0-478-510-160	RES,4.7-1/16W	a	b
CD		X	R 0275	88-108-104-080	C-RES,100K-1/	a	b
CD		X	R 0276	S0-103-510-160	RES,10K-1/16W (1	a	b

UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL FR-TC5000 UCSC	FR-TC5500 USC
CD		O	SFR0301	87-024-176-080	SFR,100K	a	b
CD		O	W 0181	SC-RD2-612-010	CONN,PHR-15	a	b
CD		O	W 0191	SC-RD2-611-010	CONN,PHR-06	a	b
CD		O	X 0221	S0-016-930-050	CER,RESO 16.93 MHz ZT	a	b
DOOR SW		O	Q 0303	89-327-125-080	C-TR,2SC2712GR	a	b
DOOR SW		X	R 0319	88-108-474-080	C-RES,470K-1/16W	a	b
DOOR SW		O	SW 0321	SB-ZG4-617-010	DETECTOR SWITCH 1P1T ESE24SV6	a	b
FRONT		O	C 0301	87-010-244-040	CAP,E 22-16V	a	b
FRONT		X	C 0302	S5-105-820-100	C-CAP,1UF-10V	a	b
FRONT		X	C 0303	S5-105-820-100	C-CAP,1UF-10V	a	b
FRONT		O	C 0306	87-018-147-08G	CAP,CER 10PF-50V	a	b
FRONT		O	C 0307	87-018-147-08G	CAP,CER 10PF-50V	a	b
FRONT		X	C 0308	S2-331-100-500	CAP,CER 330PF-50V	a	b
FRONT		X	C 0310	S2-682-200-160	CAP,CER 0.0068UF-16V	a	b
FRONT		X	C 0311	S2-104-100-250	CAP,CER 0.1UF-25V	a	b
FRONT		X	C 0312	87-018-150-080	CAP,CER 18P-50	a	b
FRONT		X	C 0313	S2-104-100-250	CAP,CER 0.1UF-25V	a	b
FRONT		O	CN 0302	SB-14B-PH1-410	CONN,14P B14B-PH-SM3	a	b
FRONT		O	CN 0303	SB-15B-PH1-510	CONN,15P B15B-PH-SM3	a	b
FRONT		O	CN 0351	S0-702-401-300	CONN PIN 7 PINS	a	b

ELECTRICAL PARTS LIST - 4/8

! = ⚠ SAFTY PARTS
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UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL FR-TC5000 UCSC	FR-TC5500 USC
FRONT		O	CN 0352	S0-702-401-300	CONN PIN 7 PINS	a	b
FRONT		O	CN 0353	S0-301-201-300	CONN PIN 3 PINS	.	b
FRONT		O	CN 0702	SB-05B-PH0-510	CONN,5P B5B-PH-SM3-T	a	b
FRONT		O	D 0302	S0-093-440-030	LED,L-934SECK	a	.
FRONT		O	D 0302	87-A41-085-010	LED,NSPW315BS	.	b
FRONT		O	D 0303	S0-093-440-030	LED,L-934SECK	a	.
FRONT		O	D 0303	87-A41-085-010	LED,NSPW315BS	.	b
FRONT		O	D 0304	S0-093-440-030	LED,L-934SECK	a	.
FRONT		O	D 0304	87-A41-085-010	LED,NSPW315BS	.	b
FRONT		S	D 0305	S0-100-331-230	C-ZENER,3.3V 1/2W	a	b
FRONT		S	IC 0301	87-A22-301-030	IC,LC877348A5Z52	a	b
FRONT		O	LCD0301	8C-RD2-609-010	LCD,N-04D-32	a	b
FRONT		S	Q 0301	89-318-154-080	TR,2SC1815GR	a	b
FRONT		X	R 0303	S0-223-510-160	RES,22K-1/16W (1	a	b
FRONT		X	R 0304	S0-332-510-160	RES,3.3K-1/16W	a	b
FRONT		X	R 0305	S0-153-510-160	RES,15K-1/16W (1	a	b
FRONT		X	R 0306	S0-223-510-160	RES,22K-1/16W (1	a	b
FRONT		X	R 0307	S0-153-510-160	RES,15K-1/16W (1	.	b
FRONT		X	R 0308	S0-472-510-160	RES,4.7K-1/16W	a	b
FRONT		X	R 0308	S0-332-510-160	RES,3.3K-1/16W	a	.

UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL FR-TC5000 UCSC	FR-TC5500 USC
FRONT		X	R 0310	S0-102-510-160	RES,1K-1/16W (1/	a	b
FRONT		X	R 0311	S0-331-510-160	RES,330-1/16W (1	a	b
FRONT		X	R 0312	S3-822-520-160	C-RES,8.2K-1/16W	a	b
FRONT		X	R 0313	S3-822-520-160	C-RES,8.2K-1/16W	a	b
FRONT		X	R 0314	S3-822-520-160	C-RES,8.2K-1/16W	a	b
FRONT		X	R 0315	88-108-153-080	C-RES,15K-1/16W	a	b
FRONT		X	R 0316	88-108-102-080	C-RES,1K-1/16	a	b
FRONT		X	R 0330	S0-151-510-160	RES,150-1/6W	a	.
FRONT		X	R 0330	S0-101-510-160	RES,100-1/16W (1	.	b
FRONT		X	R 0331	S0-331-510-160	RES,330-1/16W (1	.	b
FRONT		X	R 0332	S0-331-510-160	RES,330-1/16W (1	.	b
FRONT		X	R 0721	S0-102-510-160	RES,1K-1/16W (1/	a	b
FRONT		X	R 0722	S0-102-510-160	RES,1K-1/16W (1/	a	b
FRONT		X	R 0723	S0-104-510-160	RES,100K-1/16W (	a	b
FRONT		X	R 0724	S0-104-510-160	RES,100K-1/16W (	a	b
FRONT		O	S 0302	S0-211-102-000	SW,TACT 4P 4.3MM	a	b
FRONT		O	S 0303	S0-211-102-000	SW,TACT 4P 4.3MM	a	b
FRONT		O	S 0304	S0-211-102-000	SW,TACT 4P 4.3MM	a	b
FRONT		O	S 0305	S0-211-102-000	SW,TACT 4P 4.3MM	a	b
FRONT		O	S 0306	S0-211-102-000	SW,TACT 4P 4.3MM	a	b

UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL FR-TC5000 UCSC	FR-TC5500 USC
FRONT		O	S 0307	S0-211-102-000	SW,TACT 4P 4.3MM	a	b
FRONT		O	S 0308	S0-211-102-000	SW,TACT 4P 4.3MM	a	b
FRONT		O	T 0301	S0-010-030-750	IFT,(OSC COIL) KY1003NC	a	b
FRONT		O	VR 0701	87-A92-380-010	VR,E12M&GV020KAWSH&DXV0122GPV	a	b
FRONT		O	X 0301	87-030-194-010	CRYSTAL 32.768 KHz	a	b
JACK		O	CN 0705	S2-001-WR0-300	CONN,3P 2001-WR-3	a	b
JACK		O	J 0701	S0-535-083-010	HEADPHONE JACK 3.5mm,5 PIN, H	a	b
JACK		O	L 0701	87-005-196-080	INDUCTOR,10UH	a	b
JACK		X	R 0735	S0-101-510-160	RES,100-1/16W (1	a	b
JACK		X	R 0736	S0-101-510-160	RES,100-1/16W (1	a	b
JACK		X	R 0737	S0-330-510-160	RES,33-1/16W	a	b
JACK		X	R 0738	S0-330-510-160	RES,33-1/16W	a	b
KEY		X	R 0317	S0-472-510-160	RES,4.7K-1/16W	a	b
KEY		X	R 0318	S0-472-510-160	RES,4.7K-1/16W	a	b
KEY		O	S 0309	S0-211-102-000	SW,TACT 4P 4.3MM	a	b
KEY		O	S 0310	S0-211-102-000	SW,TACT 4P 4.3MM	a	b
KEY		O	S 0311	S0-211-102-000	SW,TACT 4P 4.3MM	a	b
KEY		O	S 0312	S0-211-102-000	SW,TACT 4P 4.3MM	a	b
KEY		O	S 0313	S0-211-102-000	SW,TACT 4P 4.3MM	a	b
KEY		O	S 0314	S0-211-102-000	SW,TACT 4P 4.3MM	a	b

UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL FR-TC5000 UCSC	FR-TC5500 USC
KEY		O	S 0315	S0-211-102-000	SW,TACT 4P 4.3MM	a	b
KEY		O	S 0316	S0-211-102-000	SW,TACT 4P 4.3MM	a	b
KEY		O	S 0317	S0-211-102-000	SW,TACT 4P 4.3MM	a	b
KEY		O	S 0318	S0-211-102-000	SW,TACT 4P 4.3MM	a	b
KEY		O	S 0319	S0-211-102-000	SW,TACT 4P 4.3MM	a	b
KEY		O	S 0320	S0-211-102-000	SW,TACT 4P 4.3MM	a	b
MAIN		O	BPF0001	87-A91-680-010	BPS,FILTER GFMB5-C3	a	b
MAIN		X	C 0001	S2-102-500-500	CAP,CER 0.001UF-50V	a	b
MAIN		X	C 0002	S2-181-100-500	CAP,CER 180P-50	a	b
MAIN		X	C 0003	S0-478-400-500	CAP,CER 4.7PF-50V	a	b
MAIN		X	C 0004	S2-103-100-160	CAP,CER 0.01UF-16V	a	b
MAIN		X	C 0005	S2-101-500-500	CAP,CER 100PF-50V	a	b
MAIN		X	C 0007	S2-688-100-500	CAP,CER 6.8PF-50V	a	b
MAIN		X	C 0008	S2-103-100-160	CAP,CER 0.01UF-16V	a	b
MAIN		X	C 0009	S2-103-100-160	CAP,CER 0.01UF-16V	a	b
MAIN		X	C 0013	S2-228-100-500	CAP,CER 2.2PF-50V	a	b
MAIN		X	C 0014	S2-103-100-160	CAP,CER 0.01UF-16V	a	b
MAIN		X	C 0015	S2-101-500-500	CAP,CER 100PF-50V	a	b
MAIN		X	C 0021	S2-104-100-250	CAP,CER 0.1UF-25V	a	b
MAIN		X	C 0022	S2-223-100-500	CAP,CER 0.022UF-50V	a	b

ELECTRICAL PARTS LIST - 5/8

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UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL FR-TC5000 UCSC	FR-TC5500 USC
MAIN		X	C 0023	S2-104-100-250	CAP,CER 0.1UF-25V	a	b
MAIN		X	C 0024	S2-680-500-500	CAP,CER 68PF-50V	a	b
MAIN		X	C 0025	S4-471-500-500	CAP,CER 470PF-50V	a	b
MAIN		X	C 0028	87-018-147-080	CAP,CER 10PF-50V	a	b
MAIN		X	C 0032	87-018-147-080	CAP,CER 10PF-50V	a	b
MAIN		X	C 0033	S2-102-500-500	CAP,CER 0.001UF-50V	a	b
MAIN		X	C 0034	87-010-053-810	CAP,E 1-50V	a	b
MAIN		O	C 0035	87-010-544-010	CAP,E 0.1-50V	a	b
MAIN		X	C 0036	87-010-053-810	CAP,E 1-50V	a	b
MAIN		O	C 0037	87-010-544-010	CAP,E 0.1-50V	a	b
MAIN		O	C 0038	87-010-544-010	CAP,E 0.1-50V	a	b
MAIN		O	C 0039	87-010-404-010	CAP,E 4.7-50V	a	b
MAIN		X	C 0040	S2-153-100-500	CAP,CER 0.015-50	a	b
MAIN		X	C 0041	S2-153-100-500	CAP,CER 0.015-50	a	b
MAIN		X	C 0042	S2-103-100-160	CAP,CER 0.01UF-16V	a	b
MAIN		X	C 0043	S2-104-100-250	CAP,CER 0.1UF-25V	a	b
MAIN		O	C 0044	87-010-263-080	CAP,E 100-10V	a	b
MAIN		X	C 0045	S2-102-500-500	CAP,CER 0.001UF-50V	a	b
MAIN		X	C 0046	87-018-147-080	CAP,CER 10PF-50V	a	b
MAIN		X	C 0047	87-018-147-080	CAP,CER 10PF-50V	a	b

UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL FR-TC5000 UCSC	FR-TC5500 USC
MAIN		X	C 0048	S2-103-100-160	CAP,CER 0.01UF-16V	a	b
MAIN		X	C 0049	87-010-053-810	CAP,E 1-50V	a	b
MAIN		O	C 0050	87-010-380-010	CAP,E 47-16V	a	b
MAIN		O	C 0051	87-010-380-010	CAP,E 47-16V	a	b
MAIN		X	C 0055	S2-102-500-500	CAP,CER 0.001UF-50V	a	b
MAIN		X	C 0056	S2-102-500-500	CAP,CER 0.001UF-50V	a	b
MAIN		X	C 0058	S2-680-500-500	CAP,CER 68PF-50V	a	b
MAIN		X	C 0059	S2-680-500-500	CAP,CER 68PF-50V	a	b
MAIN		O	C 0320	87-010-037-010	CAP,E 10-50V	a	b
MAIN		X	C 0701	S2-473-800-500	CAP,CER 0.047-50	a	b
MAIN		X	C 0702	S2-473-800-500	CAP,CER 0.047-50	a	b
MAIN		X	C 0703	87-010-053-810	CAP,E 1-50V	a	b
MAIN		X	C 0704	87-010-053-810	CAP,E 1-50V	a	b
MAIN		X	C 0705	87-010-053-810	CAP,E 1-50V	a	b
MAIN		X	C 0706	87-010-053-810	CAP,E 1-50V	a	b
MAIN		X	C 0707	S2-331-100-500	CAP,CER 330PF-50V	a	b
MAIN		X	C 0708	S2-331-100-500	CAP,CER 330PF-50V	a	b
MAIN		O	C 0709	87-010-544-010	CAP,E 0.1-50V	a	b
MAIN		O	C 0710	87-010-544-010	CAP,E 0.1-50V	a	b
MAIN		O	C 0711	87-010-037-010	CAP,E 10-50V	a	b
MAIN		O	C 0712	87-010-037-010	CAP,E 10-50V	a	b
MAIN		O	C 0713	87-010-263-080	CAP,E 100-10V	a	b
MAIN		O	C 0714	87-010-263-080	CAP,E 100-10V	a	b
MAIN		O	C 0715	87-010-400-010	CAP,E 0.47-50V	a	b
MAIN		O	C 0716	87-010-400-010	CAP,E 0.47-50V	a	b
MAIN		O	C 0717	87-010-236-010	CAP,E 1000-10V	a	b
MAIN		O	C 0718	87-010-236-010	CAP,E 1000-10V	a	b
MAIN		O	C 0720	87-010-248-080	CAP,E 220-10V	a	b
MAIN		X	C 0721	S2-104-810-500	CAP,CER 0.1UF-50V	a	b
MAIN		X	C 0723	S2-473-800-500	CAP,CER 0.047-50	a	b
MAIN		X	C 0724	S2-473-800-500	CAP,CER 0.047-50	a	b
MAIN		X	C 0725	S2-562-200-160	CAP,CER 0.0056UF-16V	a	b
MAIN		X	C 0726	S2-562-200-160	CAP,CER 0.0056UF-16V	a	b
MAIN		X	C 0727	S2-104-810-500	CAP,CER 0.1UF-50V	a	b
MAIN		X	C 0728	S2-104-810-500	CAP,CER 0.1UF-50V	a	b
MAIN		O	C 0730	87-010-112-010	CAP,E 100-16V	a	b
MAIN		O	C 0801	87-010-378-010	CAP,E 3300-25V	a	b
MAIN		O	C 0802	87-010-124-090	CAP,E 4700-16V	a	b
MAIN		X	C 0803	S2-222-200-160	CAP,CER 0.0022UF-16V	a	b
MAIN		O	C 0804	87-010-037-010	CAP,E 10-50V	a	b
MAIN		O	C 0805	87-010-263-080	CAP,E 100-10V	a	b
MAIN		X	C 0806	S2-104-810-500	CAP,CER 0.1UF-50V	a	b
MAIN		O	C 0807	87-010-037-010	CAP,E 10-50V	a	b
MAIN		O	C 0808	87-010-380-010	CAP,E 47-16V	a	b
MAIN		X	C 0809	S2-470-500-500	CAP,CER 47P-50V	a	b
MAIN		O	C 0812	87-010-380-010	CAP,E 47-16V	.	b
MAIN		X	C 0813	S2-223-100-500	CAP,CER 0.022UF-50V	a	b
MAIN		X	C 0814	S2-223-100-500	CAP,CER 0.022UF-50V	a	b
MAIN		X	C 0815	S2-223-100-500	CAP,CER 0.022UF-50V	a	b
MAIN		X	C 0816	S2-223-100-500	CAP,CER 0.022UF-50V	a	b
MAIN		X	C 0817	S2-223-100-500	CAP,CER 0.022UF-50V	a	b
MAIN		X	C 0818	S2-223-100-500	CAP,CER 0.022UF-50V	a	b
MAIN		X	C 0819	S2-223-100-500	CAP,CER 0.022UF-50V	a	b
MAIN		X	C 0821	S2-104-810-500	CAP,CER 0.1UF-50V	a	b
MAIN		O	CD 0001	S6-010-700-020	CER,RESO #CDA10.7MG6	a	b
MAIN		O	CF 0001	S0-004-500-000	CER,FIL SFU450B	a	b
MAIN		O	CF 0002	87-PC4-617-010	CER,FIL SFE10.7MS2-A/LT	a	b
MAIN		O	CN 0301	SC-RD2-613-010	CONN,PHR-14	a	b
MAIN		O	CN 0701	SC-RD2-614-010	HSG (2mm) JST PHR-05 TO 5P-SAN	a	b
MAIN		X	CN 0703	SP-HS0-600-600	HEADER CTL 6P	a	b

ELECTRICAL PARTS LIST - 6/8

! = ⚠ SAFTY PARTS
C = Components marked
All components used on this model at the production line are shown in this service manual.
However, please note that not all components will be available as spare parts for after-sales service.
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Components marked X and R are not designated as spare parts for after sales service, and will not be stocked at the spare parts centers.

UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL FR-TC5000 UCSC	FR-TC5500 USC
MAIN		O	CN 0704	SC-RD2-615-010	CONN,PHR-03	a	b
MAIN		S	D 0001	87-A40-560-010	VARACTOR DIODE,KV1360NT	a	b
MAIN		S	D 0002	87-A40-560-010	VARACTOR DIODE,KV1360NT	a	b
MAIN		O	D 0006	87-A40-456-080	VARI-CAP,KV1590NT	a	b
MAIN		O	D 0310	82-135-799-010	DIODE,IN4148	a	b
MAIN		O	D 0801	S0-200-050-000	DIODE,1.5A 50V	a	b
MAIN		O	D 0802	S0-200-050-000	DIODE,1.5A 50V	a	b
MAIN		O	D 0803	S0-200-050-000	DIODE,1.5A 50V	a	b
MAIN		O	D 0804	S0-200-050-000	DIODE,1.5A 50V	a	b
MAIN		O	D 0805	87-001-936-080	ZENER,BZX55C6V8	a	b
MAIN		O	D 0806	87-017-931-080	ZENER,5.6V	a	b
MAIN		O	D 0807	87-017-931-080	ZENER,5.6V	a	b
MAIN		S	D 0808	S0-100-471-240	ZENER,MTZJ4.7B	a	b
MAIN		O	D 0810	82-135-799-010	DIODE,IN4148	a	b
MAIN	!	O	F 0801	S0-200-200-010	FUSE,2A	a	b
MAIN		X	FM 0001	S6-79A-200-090	JP WIRE AWG26#1007 3x0mm 1200	a	b
MAIN		S	IC 0001	S8-321-040-010	IC,TA2104AN	a	b
MAIN		O	IC 0002	87-A21-928-010	IC,LC72131D/-N	a	b
MAIN		O	IC 0701	S8-382-270-000	IC,TA8227P	a	b
MAIN		O	IFT0001	S0-022-400-100	IFT,4A-224R,10mm	a	b
MAIN		O	L 0001	S0-500-450-080	FM,COIL 5T 4.5MM DIA 0.8MM	a	b
MAIN		X	L 0003	S0-400-450-080	FM,COIL 4T 4.5MM	a	b
MAIN		O	L 0010	S0-580-051-000	MW ANT COIL 58T:0 USTC	a	b
MAIN		O	L 0011	87-003-152-080	COIL,100UH	a	b
MAIN		O	L 0012	87-003-097-080	INDUCTOR 1uH #LAL02TB1ROK/2.3	a	b
MAIN		O	Q 0001	86-NFZ-657-080	TR,2SC1923(O)	a	b
MAIN		S	Q 0006	89-110-154-080	TR,2SA1015Y	a	b
MAIN		S	Q 0009	89-318-154-080	TR,2SC1815GR	a	b
MAIN		S	Q 0010	89-318-154-080	TR,2SC1815GR	a	b
MAIN		S	Q 0302	89-110-154-080	TR,2SA1015Y	a	b
MAIN		S	Q 0701	89-318-154-080	TR,2SC1815GR	a	b
MAIN		S	Q 0702	89-318-154-080	TR,2SC1815GR	a	b
MAIN		S	Q 0703	89-318-154-080	TR,2SC1815GR	a	b
MAIN		S	Q 0704	89-318-154-080	TR,2SC1815GR	a	b
MAIN		O	Q 0801	S2-015-660-000	TR,2SB1566E/F	a	b
MAIN		S	Q 0802	89-318-154-080	TR,2SC1815GR	a	b
MAIN		S	Q 0803	89-318-154-080	TR,2SC1815GR	a	b
MAIN		S	Q 0804	89-318-154-080	TR,2SC1815GR	a	b
MAIN		S	Q 0805	89-318-154-080	TR,2SC1815GR	a	b
MAIN		S	Q 0806	89-318-154-080	TR,2SC1815GR	a	b
MAIN		S	Q 0807	89-110-154-080	TR,2SA1015Y	a	b
MAIN		S	Q 0808	89-318-154-080	TR,2SC1815GR	a	b
MAIN		S	Q 0809	89-318-154-080	TR,2SC1815GR	a	b
MAIN		X	R 0001	S0-104-510-160	RES,100K-1/16W (	a	b
MAIN		X	R 0002	S0-104-510-160	RES,100K-1/16W (	a	b
MAIN		X	R 0003	S0-270-510-160	RES,27-1/16W	a	b
MAIN		X	R 0004	S0-473-510-160	RES,47K-1/16W (1	a	b
MAIN		X	R 0005	S0-104-510-160	RES,100K-1/16W (	a	b
MAIN		X	R 0006	S0-104-510-160	RES,100K-1/16W (	a	b
MAIN		X	R 0007	S0-473-510-160	RES,47K-1/16W (1	a	b
MAIN		X	R 0008	S0-103-510-160	RES,10K-1/16W (1	a	b
MAIN		X	R 0009	S0-473-510-160	RES,47K-1/16W (1	a	b
MAIN		X	R 0010	S0-222-510-160	RES,2.2K-1/16W	a	b
MAIN		X	R 0011	S0-151-510-160	RES,150-1/6W	a	b
MAIN		X	R 0013	S0-474-510-160	RES,470K-1/16W	a	b
MAIN		X	R 0019	S0-104-510-160	RES,100K-1/16W (	a	b
MAIN		X	R 0023	S0-222-510-160	RES,2.2K-1/16W	a	b
MAIN		X	R 0024	S0-332-510-160	RES,3.3K-1/16W	a	b
MAIN		X	R 0025	S0-222-510-160	RES,2.2K-1/16W	a	b
MAIN		X	R 0026	S0-331-510-160	RES,330-1/16W (1	a	b
MAIN		X	R 0033	S0-472-510-160	RES,4.7K-1/16W	a	b
MAIN		X	R 0034	S0-222-510-160	RES,2.2K-1/16W	a	b
MAIN		X	R 0035	S0-472-510-160	RES,4.7K-1/16W	a	b
MAIN		X	R 0036	S0-331-510-160	RES,330-1/16W (1	a	b
MAIN		X	R 0037	S0-100-510-160	RES,10-1/16W (1/	a	b
MAIN		X	R 0038	S0-473-510-160	RES,47K-1/16W (1	a	b
MAIN		X	R 0039	S0-472-510-160	RES,4.7K-1/16W	a	b
MAIN		X	R 0041	S0-472-510-160	RES,4.7K-1/16W	a	b
MAIN		X	R 0043	S0-472-510-160	RES,4.7K-1/16W	a	b
MAIN		X	R 0045	S0-472-510-160	RES,4.7K-1/16W	a	b
MAIN		X	R 0046	S0-473-510-160	RES,47K-1/16W (1	a	b
MAIN		X	R 0047	S0-472-510-160	RES,4.7K-1/16W	a	b
MAIN		X	R 0048	S0-472-510-160	RES,4.7K-1/16W	a	b
MAIN		X	R 0049	S0-473-510-160	RES,47K-1/16W (1	a	b
MAIN		X	R 0050	S0-331-510-160	RES,330-1/16W (1	a	b
MAIN		X	R 0051	S0-152-500-160	RES,1.5K-1/16W	a	b
MAIN		X	R 0052	S0-220-510-160	RES,22-1/16W (1/	a	b
MAIN		X	R 0053	S0-823-510-160	RES,82K-1/16W	a	b
MAIN		X	R 0055	S0-103-510-160	RES,10K-1/16W (1	a	b
MAIN		X	R 0056	S0-332-510-160	RES,3.3K-1/16W	a	b

ELECTRICAL PARTS LIST - 7/8

! = ⚠ SAFTY PARTS
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UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL FR-TC5000 UCSC	FR-TC5500 USC
MAIN		X	R 0057	S0-220-510-160	RES,22-1/16W (1/	a	b
MAIN		X	R 0059	S0-104-510-160	RES,100K-1/16W (	a	b
MAIN		X	R 0060	S0-222-510-160	RES,2.2K-1/16W	a	b
MAIN		X	R 0320	S0-102-510-160	RES,1K-1/16W (1/	a	b
MAIN		X	R 0321	S0-103-510-160	RES,10K-1/16W (1	a	b
MAIN		X	R 0322	S0-103-510-160	RES,10K-1/16W (1	a	b
MAIN		X	R 0323	S0-104-510-160	RES,100K-1/16W (	a	b
MAIN		X	R 0324	S0-473-510-160	RES,47K-1/16W (1	a	b
MAIN		X	R 0325	S0-103-510-160	RES,10K-1/16W (1	a	b
MAIN		X	R 0326	S0-103-510-160	RES,10K-1/16W (1	a	b
MAIN		X	R 0701	S0-473-510-160	RES,47K-1/16W (1	a	b
MAIN		X	R 0702	S0-473-510-160	RES,47K-1/16W (1	a	b
MAIN		X	R 0703	S0-223-510-160	RES,22K-1/16W (1	a	b
MAIN		X	R 0704	S0-223-510-160	RES,22K-1/16W (1	a	b
MAIN		X	R 0705	S0-473-510-160	RES,47K-1/16W (1	a	b
MAIN		X	R 0706	S0-473-510-160	RES,47K-1/16W (1	a	b
MAIN		X	R 0707	S0-222-510-160	RES,2.2K-1/16W	a	b
MAIN		X	R 0708	S0-222-510-160	RES,2.2K-1/16W	a	b
MAIN		X	R 0709	S0-123-510-160	RES,12K-1/16W (1	a	b
MAIN		X	R 0710	S0-123-510-160	RES,12K-1/16W (1	a	b

UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL FR-TC5000 UCSC	FR-TC5500 USC
MAIN		X	R 0711	S0-103-510-160	RES,10K-1/16W (1	a	b
MAIN		X	R 0712	S0-103-510-160	RES,10K-1/16W (1	a	b
MAIN		X	R 0713	S0-103-510-160	RES,10K-1/16W (1	a	b
MAIN		X	R 0714	S0-103-510-160	RES,10K-1/16W (1	a	b
MAIN		X	R 0717	S0-682-510-160	RES,6.8K-1/16W	a	b
MAIN		X	R 0718	S0-682-510-160	RES,6.8K-1/16W	a	b
MAIN		X	R 0719	S0-478-510-160	RES,4.7-1/16W	a	b
MAIN		X	R 0720	S0-478-510-160	RES,4.7-1/16W	a	b
MAIN		X	R 0721	S0-123-510-160	RES,12K-1/16W (1	a	b
MAIN		X	R 0722	S0-123-510-160	RES,12K-1/16W (1	a	b
MAIN		X	R 0723	S0-682-510-160	RES,6.8K-1/16W	a	b
MAIN		X	R 0724	S0-682-510-160	RES,6.8K-1/16W	a	b
MAIN		X	R 0731	S0-103-510-160	RES,10K-1/16W (1	a	b
MAIN		X	R 0732	S0-103-510-160	RES,10K-1/16W (1	a	b
MAIN		X	R 0733	S0-221-510-160	RES,220-1/16W	a	b
MAIN		X	R 0734	S0-221-510-160	RES,220-1/16W	a	b
MAIN		X	R 0740	S0-471-510-160	RES,470-1/16W	a	b
MAIN		X	R 0801	S0-473-510-160	RES,47K-1/16W (1	a	b
MAIN		X	R 0802	S0-331-500-120	RES,330-1/2W	a	b
MAIN		X	R 0803	S0-222-510-160	RES,2.2K-1/16W	a	b

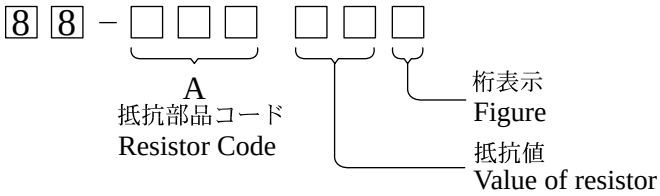
UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL FR-TC5000 UCSC	FR-TC5500 USC
MAIN		X	R 0804	S0-103-510-160	RES,10K-1/16W (1	a	b
MAIN		X	R 0805	S0-102-510-160	RES,1K-1/16W (1/	a	b
MAIN		X	R 0806	S0-102-510-160	RES,1K-1/16W (1/	a	b
MAIN		X	R 0807	S0-332-510-160	RES,3.3K-1/16W	a	b
MAIN		X	R 0808	S0-221-510-160	RES,220-1/16W	a	b
MAIN		X	R 0809	S0-102-510-160	RES,1K-1/16W (1/	a	b
MAIN		X	R 0810	S0-333-510-160	RES,33K-1/16W (1	a	b
MAIN		X	R 0811	S0-473-510-160	RES,47K-1/16W (1	a	b
MAIN		X	R 0812	S0-104-510-160	RES,100K-1/16W (	a	b
MAIN		X	R 0813	S0-332-510-160	RES,3.3K-1/16W	a	b
MAIN		X	R 0814	S0-104-510-160	RES,100K-1/16W (	a	b
MAIN		X	R 0815	S0-151-510-160	RES,150-1/6W	a	b
MAIN		X	R 0819	S0-331-510-160	RES,330-1/16W (1	.	b
MAIN		O	S 0301	87-A92-381-010	TACT SW SKHMPFA010	a	b
MAIN		O	TC 0002	S2-006-100-000	TRIMMER CAP CVN610 3-10pF WHI	a	b
MAIN		O	X 0001	87-A70-306-010	X'TAL,4.5 MHz(CSA309)	a	b
MOTOR		O	CN 0002	87-A60-086-010	CONN,06P H 6216	a	b
MOTOR		O	M 0001	87-A92-350-010	MOT,M25E-11R-14 1413	a	b
MOTOR		O	M 0002	87-A92-351-010	MOT,M25E-11R-14 1414	a	b
MOTOR		O	SW 0004	87-A90-042-010	SW,LEAF MSW-17310MVPO	a	b

UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL FR-TC5000 UCSC	FR-TC5500 USC
REMOCON		X	C 0330	S5-104-120-250	CHIP CAP 0.1 uF/25V +-10% (06	.	b
REMOCON		X	C 0331	S7-A12-367-080	CHIP CAP 0.018 uF/25V +-10% (	.	b
REMOCON		S	IC 0302	87-A21-245-010	IC,RPM6938-V4	.	b
SW		O	CN 0001	87-A60-589-010	CONN,4P V TOC-B	a	b
SW		O	SW 0001	8B-ZG4-616-010	C-SW,LVR 2-2-2 ESE24MV6	a	b
SW		O	SW 0002	8B-ZG4-617-010	SW,LVR 2-2-2 ESE24SV6	a	b
SW		O	SW 0003	8B-ZG4-617-010	SW,LVR 2-2-2 ESE24SV6	a	b

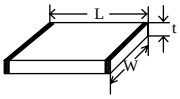
- Regarding connectors, they are not stocked as they are not the initial order items.
  The connectors are available after they are supplied from connector manufacturers upon the order is received.

○チップ抵抗部品コード／CHIP RESISTOR PART CODE

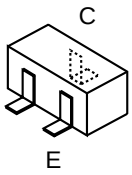
チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding



チップ抵抗
Chip resistor

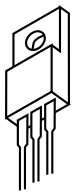
容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm) 外形／Form	L	W	t	抵抗コード ：A Resistor Code：A
1/16W	1005	± 5%	CJ		1.0	0.5	0.35	104
1/16W	1608	± 5%	CJ		1.6	0.8	0.45	108
1/10W	2125	± 5%	CJ		2	1.25	0.45	118
1/8W	3216	± 5%	CJ		3.2	1.6	0.55	128

TRANSISTOR ILLUSTRATION -1/1

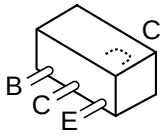


2SA1362GR
2SC2712GR
2SC3326B
DTC114TK/TKA
DTC124XKA

2SA1015
2SC1815
2SC1923

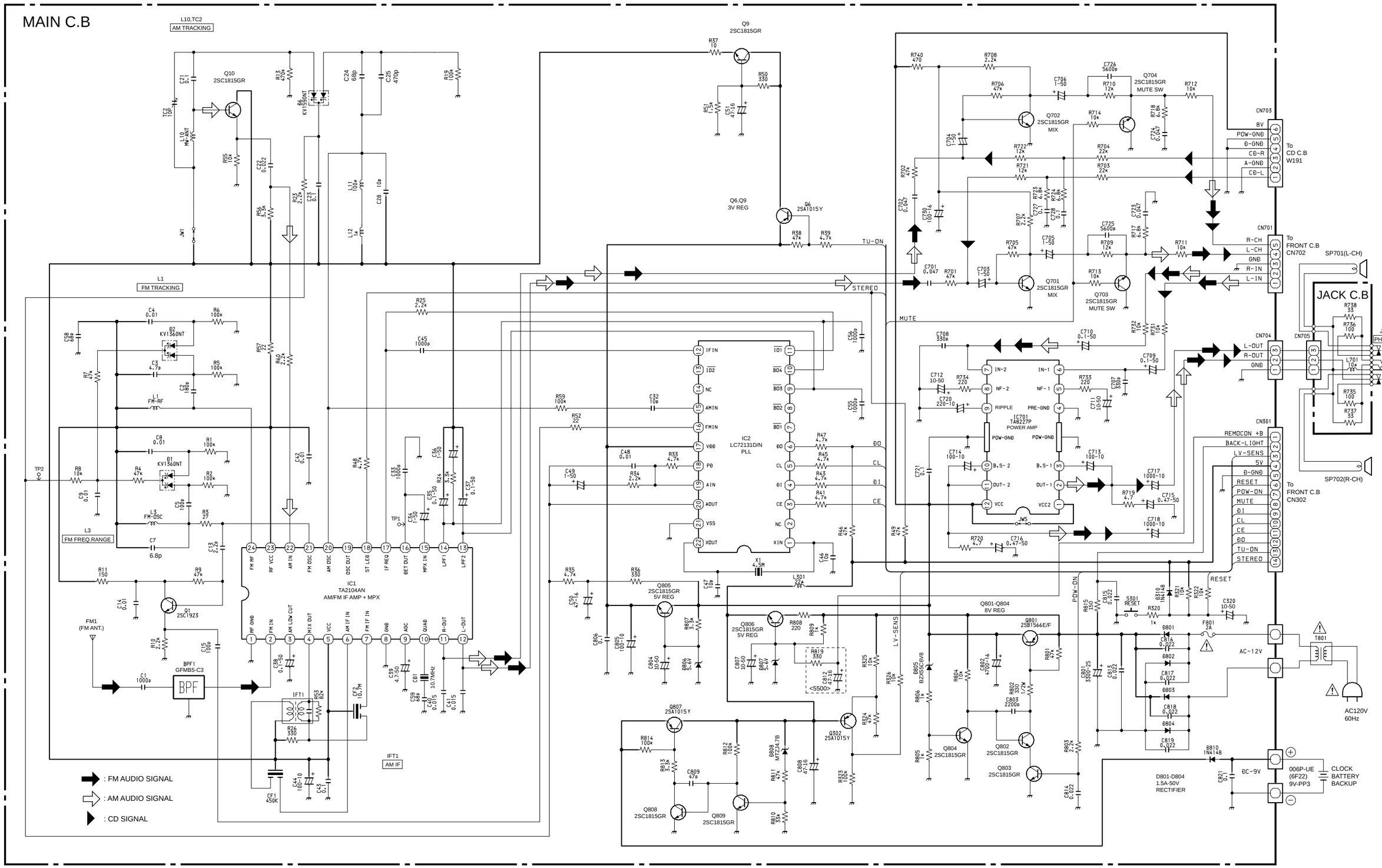


2SA1235
2SB1566

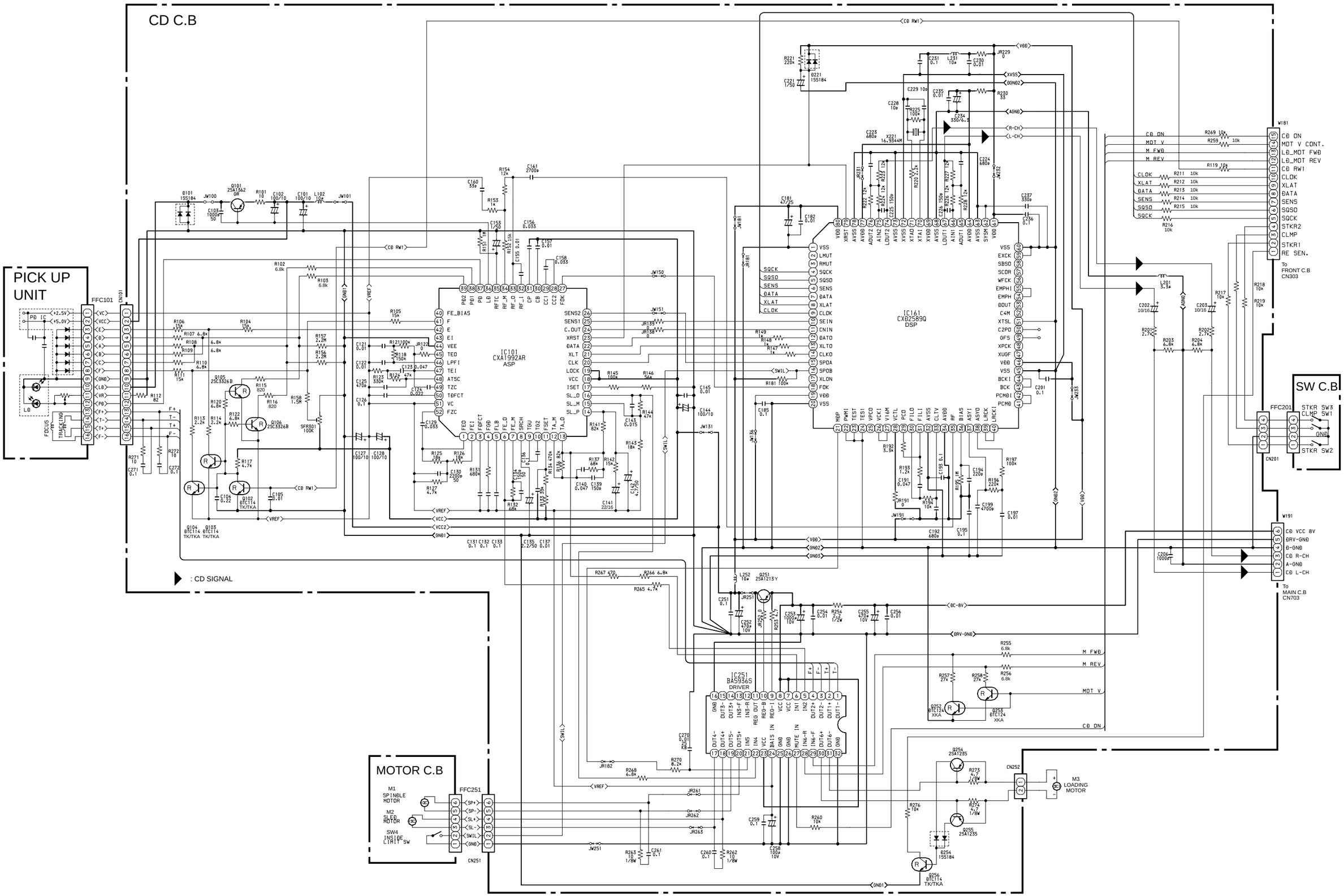


2SA1213

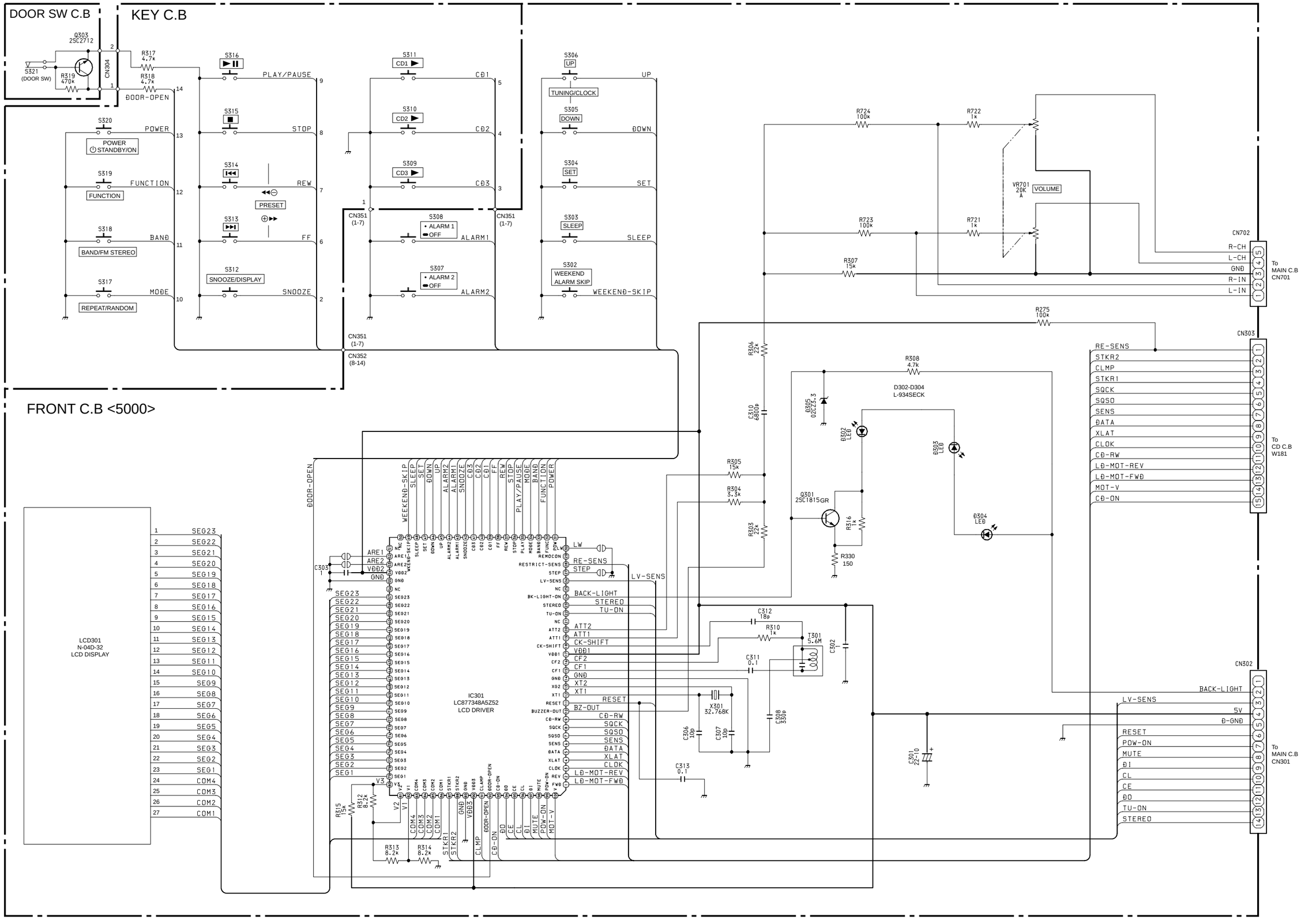
SCHEMATIC DIAGRAM - 1/4 (MAIN SECTION)



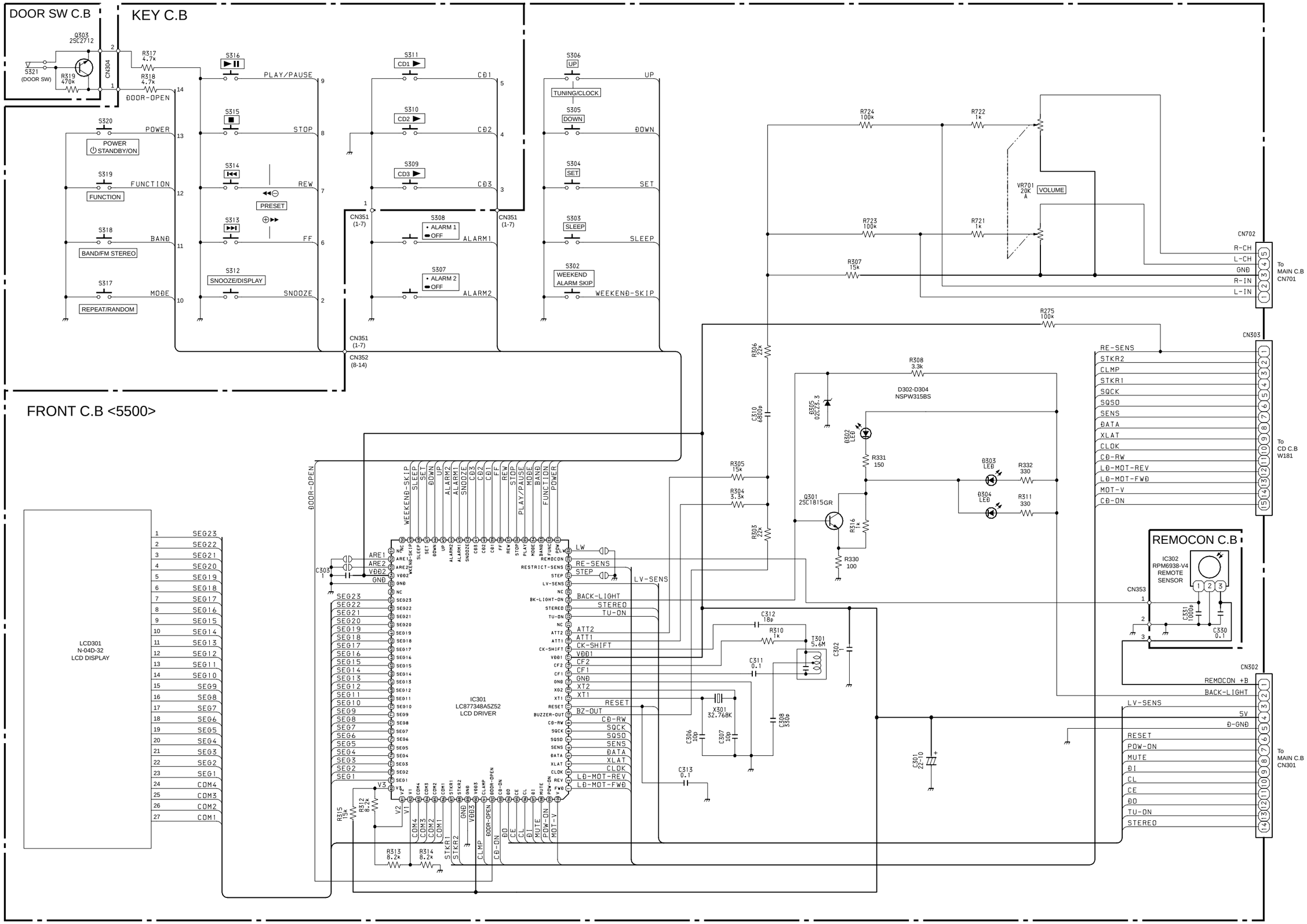
SCHEMATIC DIAGRAM - 2/4 (CD SECTION)



SCHEMATIC DIAGRAM - 3/4 (FRONT SECTION) <FR-TC5000>



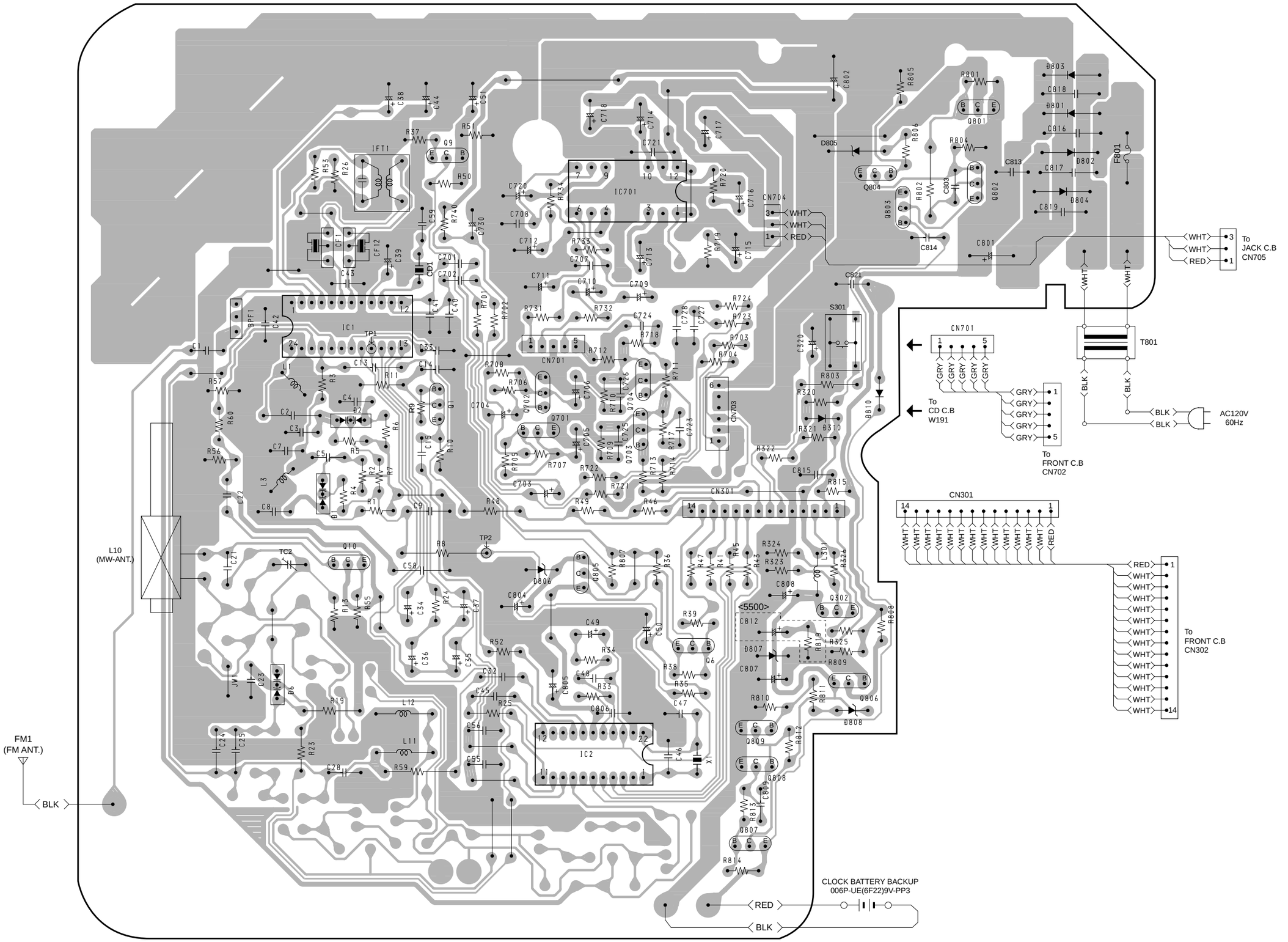
SCHEMATIC DIAGRAM - 4/4 (FRONT SECTION) <FR-TC5500>



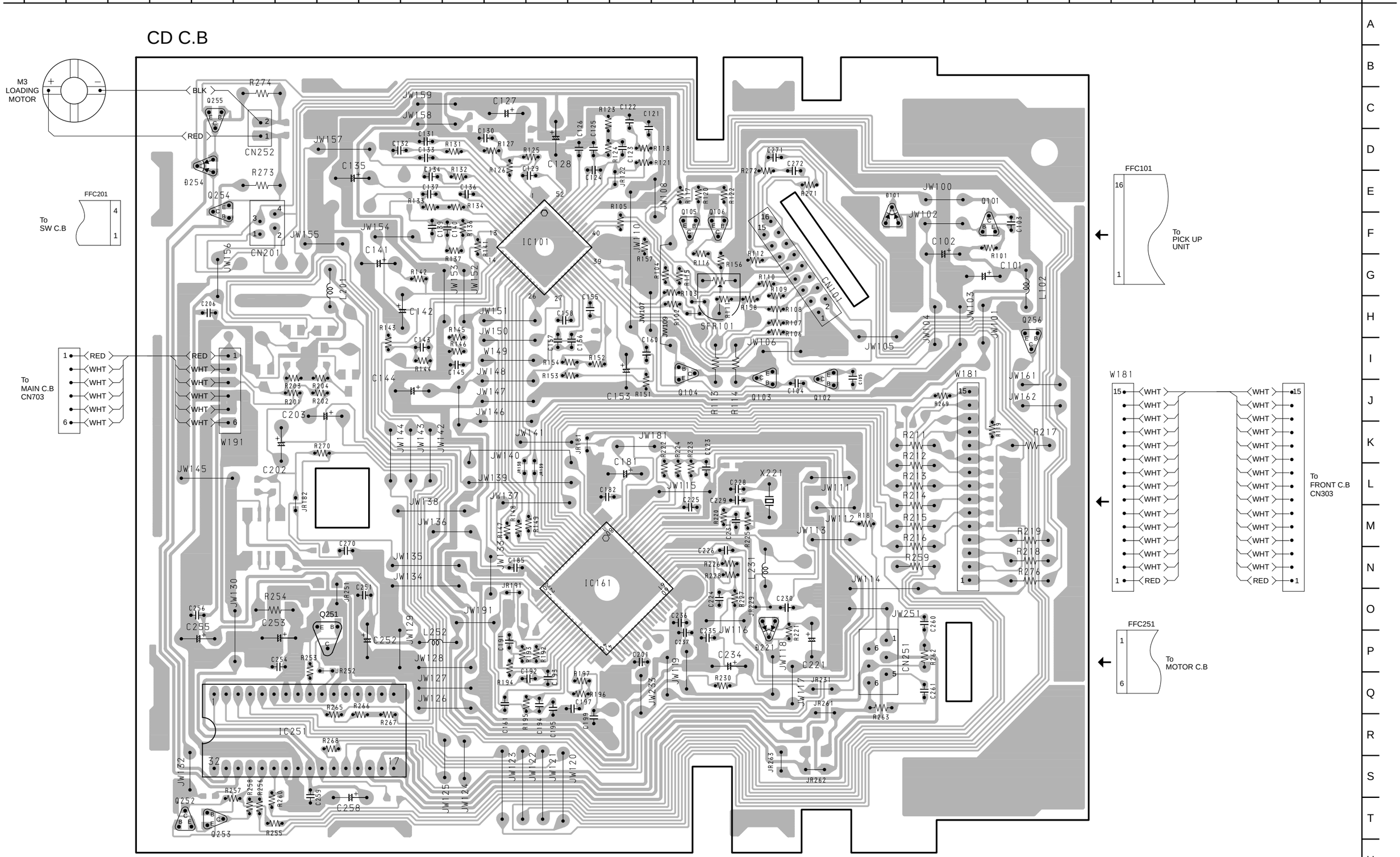
32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

A B C D E F G H I J K L M N O P Q R S T U

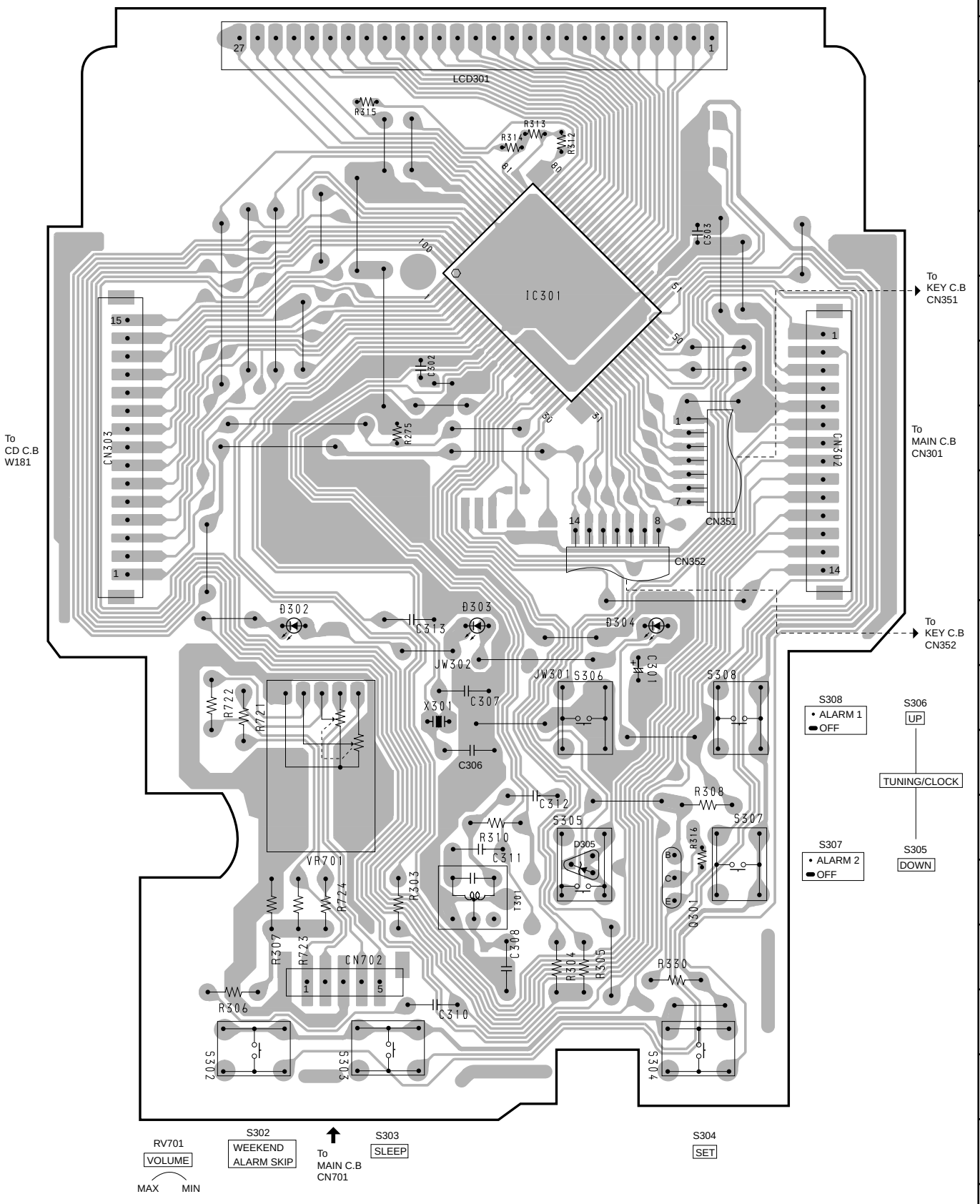
MAIN C.B



CD C.B


M3 LOADING MOTOR
BLK
RED
FFC201
To SW C.B
To MAIN C.B CN703
W191
IC101
IC161
IC251
SFR101
CN101
CN201
CN252
CN251
FFC101
To PICK UP UNIT
W181
To FRONT C.B CN303
FFC251
To MOTOR C.B

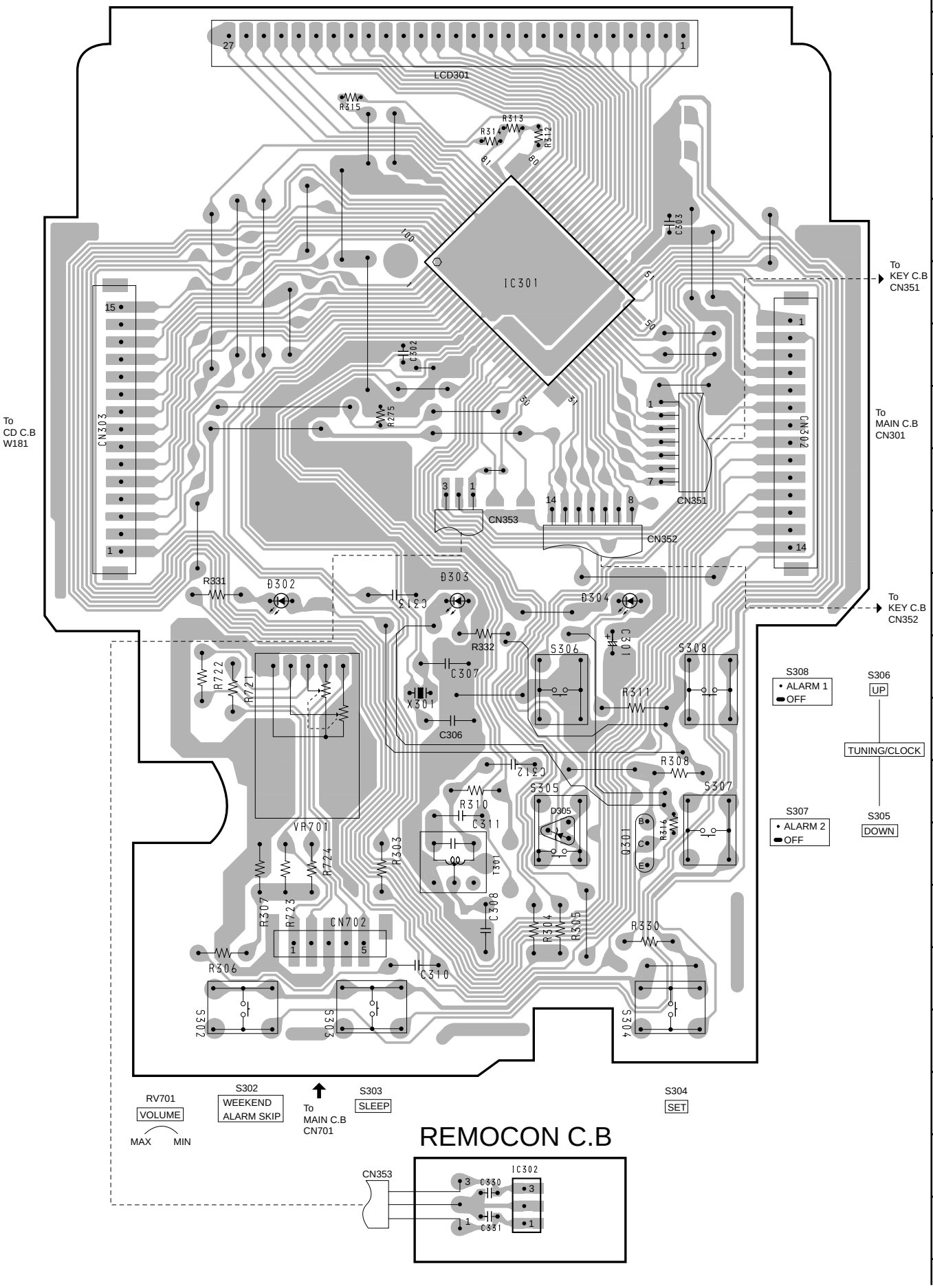
FRONT C.B <5000>

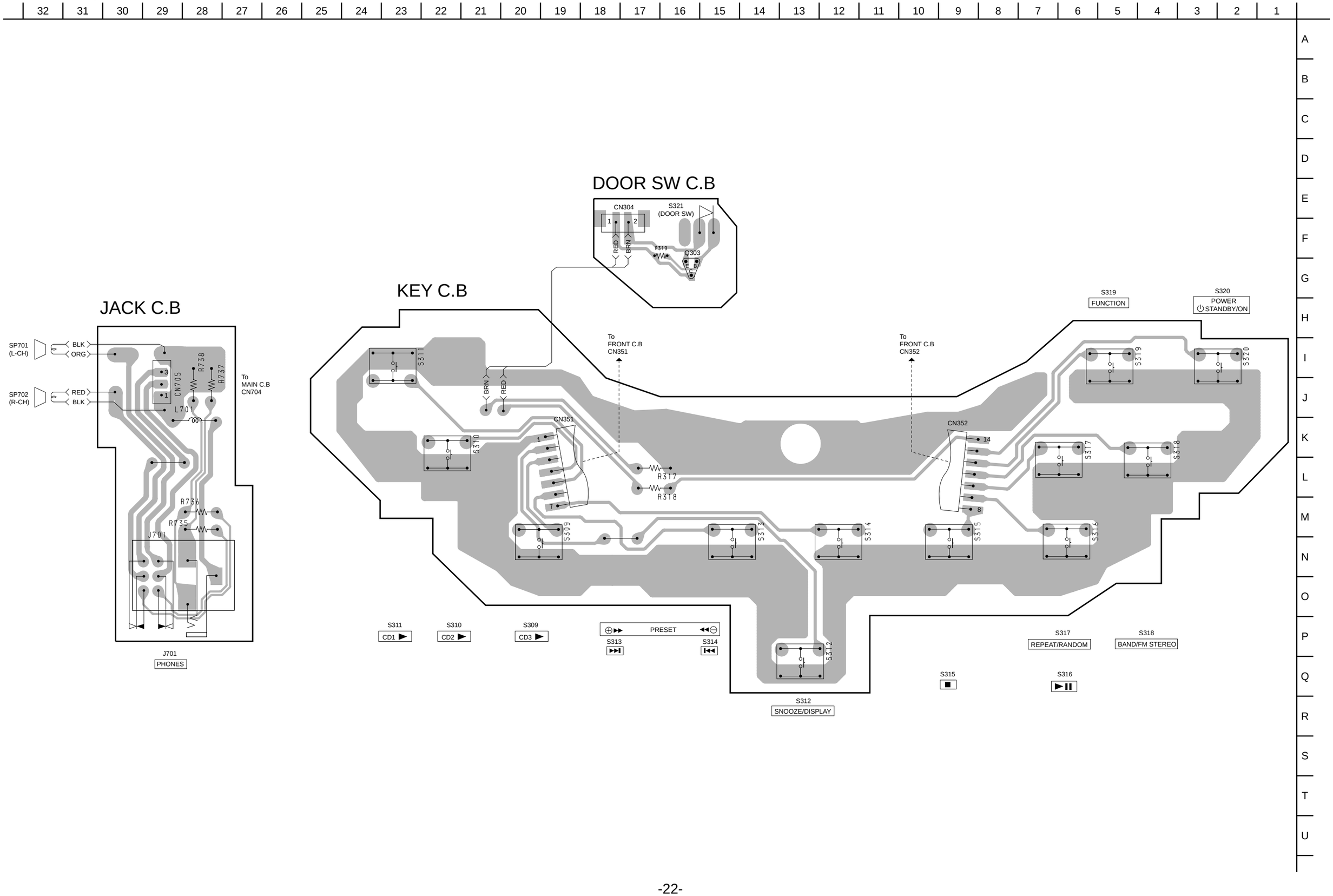


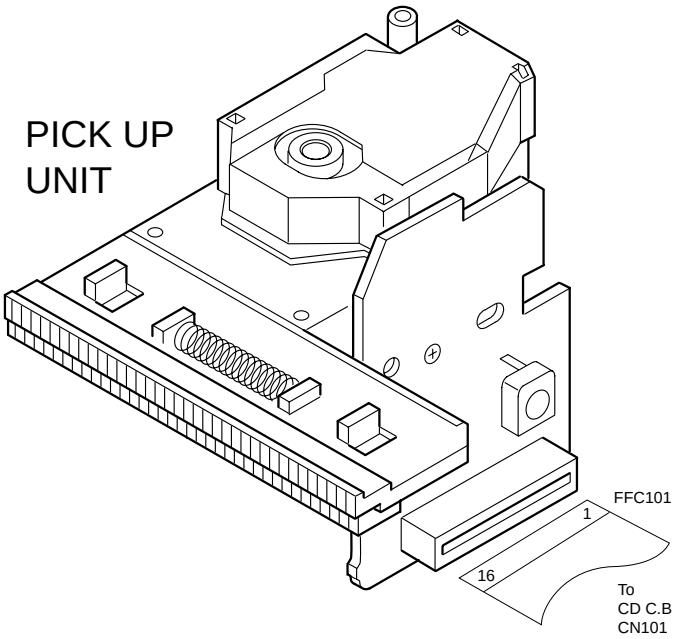
15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

A B C D E F G H I J K L M N O P Q R S T U

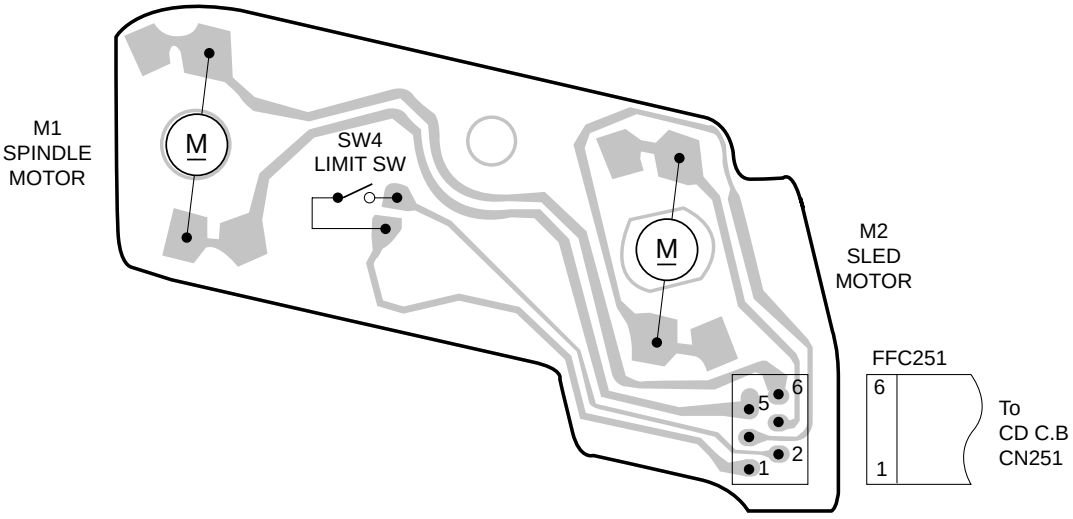
FRONT C.B <5500>



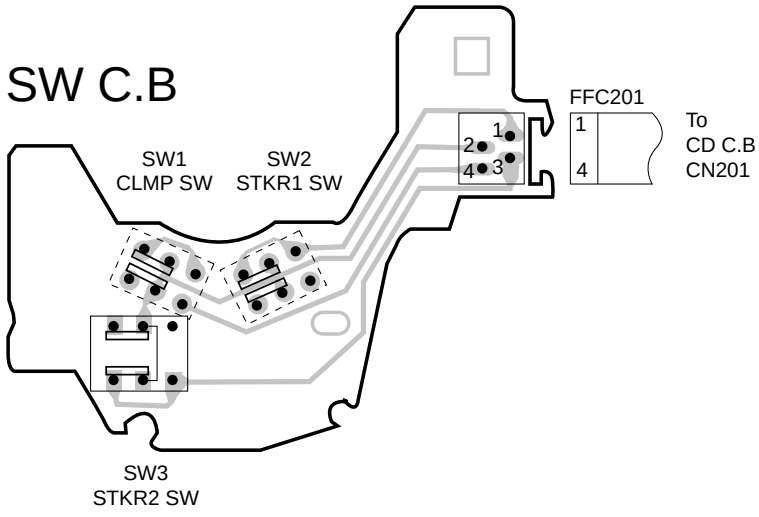

DOOR SW C.B
CN304
S321
(DOOR SW)
RED
BRN
R319
Q303
KEY C.B
JACK C.B
SP701
(L-CH)
BLK
ORG
SP702
(R-CH)
RED
BLK
CN705
R738
R737
L701
To
MAIN C.B
CN704
R736
R735
J701
J701
PHONES
To
FRONT C.B
CN351
To
FRONT C.B
CN352
CN351
CN352
S311
S310
S309
S313
S314
S312
S319
S320
S317
S318
S315
S316
R317
R318
S319
FUNCTION
S320
POWER
STANDBY/ON
S311
CD1
S310
CD2
S309
CD3
PRESET
S313
S314
S317
REPEAT/RANDOM
S318
BAND/FM STEREO
S315
S316
S312
SNOOZE/DISPLAY



MOTOR C.B



SW C.B



VOLTAGE CHART -1/2

UNIT: V
CD SECTION
TEST CONDITION: CD PLAY

IC301 (LC877348A5Z52)

PIN'S NUMBER	1	2	3	4	5	6	7	8	9	10
CD PLAY	0	0	4.87	4.92	4.81	0.05	0.58	4.86	0	0
PIN'S NUMBER	11	12	13	14	15	16	17	18	19	20
CD PLAY	4.92	1.17	2.55	0	2.09	2.25	4.93	0.91	0	0
PIN'S NUMBER	21	22	23	24	25	26	27	28	29	30
CD PLAY	0	4.74	4.90	0.78	0.85	5.52	4.19	4.88	0	4.91
PIN'S NUMBER	31	32	33	34	35	36	37	38	39	40
CD PLAY	4.91	0	4.91	4.91	4.91	0	4.91	4.91	4.91	4.91
PIN'S NUMBER	41	42	43	44	45	46	47	48	49	50
CD PLAY	4.91	4.91	4.91	0	4.91	4.91	4.91	4.91	4.91	4.91
PIN'S NUMBER	51	52	53	54	55	56	57	58	59	60
CD PLAY	4.91	0	4.91	4.93	0	1.51				
PIN'S NUMBER	61	62	63	64	65	66	67	68	69	70
CD PLAY										
PIN'S NUMBER	71	72	73	74	75	76	77	78	79	80
CD PLAY										3.03
PIN'S NUMBER	81	82	83	84	85	86	87	88	89	90
CD PLAY	2.02	0	1.52	1.52	1.52	1.52	0.48	4.91	0	4.93
PIN'S NUMBER	91	92	93	94	95	96	97	98	99	100
CD PLAY	0.48	4.00	0	4.91	0	0	0	0	4.67	0

IC161 (CXD2589Q)

PIN'S NUMBER	1	2	3	4	5	6	7	8	9	10
CD PLAY	0	4.98	4.98	4.87	0.55	0	4.81	4.93	4.88	4.91
PIN'S NUMBER	11	12	13	14	15	16	17	18	19	20
CD PLAY	0.08	4.07	4.87	4.94	4.98	4.93	4.98	5.00	4.99	0
PIN'S NUMBER	21	22	23	24	25	26	27	28	29	30
CD PLAY	2.70	0	0	0	0	0	0	4.99	2.53	2.54
PIN'SNUMBER	31	32	33	34	35	36	37	38	39	40
CD PLAY	2.53	0	2.54	4.97	2.49	0.85	2.50	2.50	2.49	2.49
PIN'S NUMBER	41	42	43	44	45	46	47	48	49	50
CD PLAY	2.51	2.50	2.41	2.41	0	4.98	4.97	2.35	4.98	0
PIN'S NUMBER	51	52	53	54	55	56	57	58	59	60
CD PLAY	0	2.37	2.44	0	0	2.50	0	0.12	0	0
PIN'SNUMBER	61	62	63	64	65	66	67	68	69	70
CD PLAY	4.98	0.13	0.13	4.69	2.05	2.07	2.08	0.13	4.98	2.44
PIN'SNUMBER	71	72	73	74	75	76	77	78	79	80
CD PLAY	2.45	0	0.13	2.06	0	2.09	4.69	0.13	4.88	4.98

IC101 (CXA1992AR)

PIN'SNUMBER	1	2	3	4	5	6	7	8	9	10	11
CD PLAY	2.55	2.54	2.51	2.54	2.52	2.54	2.53	2.77	2.53	2.53	0.81
PIN'SNUMBER	12	13	14	15	16	17	18	19	20	21	22
CD PLAY	2.53	2.55	2.55	2.54	2.58	1.29	5.04	5.04	4.94	4.98	4.87
PIN'SNUMBER	23	24	25	26	27	28	29	30	31	32	33
CD PLAY	4.88	0.08	4.91	4.97	5.01	1.21	1.30	2.11	2.28	2.53	3.24
PIN'S NUMBER	34	35	36	37	38	39	40	41	42	43	44
CD PLAY	2.55	3.16	3.93	0.17	2.55	2.53	2.53	2.54	2.56	2.26	0
PIN'SNUMBER	45	46	47	48	49	50	51	52			
CD PLAY	2.53	2.47	2.53	2.44	2.52	2.50	2.53	2.52			

VOLTAGE CHART -2/2

IC251 (BA5936S)

PIN'SNUMBER	1	2	3	4	5	6	7	8
CD PLAY	3.57	3.56	3.50	3.58	2.53	2.53	7.60	7.63
PIN'SNUMBER	9	10	11	12	13	14	15	16
CD PLAY	7.61	7.02	5.04	0	0	3.87	3.87	0
PIN'SNUMBER	17	18	19	20	21	22	23	24
CDPLAY	3.43	3.60	3.22	0	0	2.53	7.62	2.53
PIN'SNUMBER	25	26	27	28	29	30	31	32
CD PLAY	0	0	3.12	0	0	3.88	3.88	0

TUNER SECTION

TEST CONDITION: SET AM/FM TUNER ON ONE FREQUENCY

IC1 (TA2104AN)

PIN'SNUMBER	1	2	3	4	5	6	7	8
AM	0	0	1.17	2.98	3.01	2.33	3.01	0
FM	0	0.79	0	2.65	2.93	2.57	2.93	0
PIN'SNUMBER	9	10	11	12	13	14	15	16
AM	0.47	2.81	1.21	1.23	0	0	0.70	1.06
FM	0.16	2.15	1.20	1.22	2.07	0	0.70	1.38
PIN'SNUMBER	17	18	19	20	21	22	23	24
AM	1.24	4.91	2.81	3.01	2.98	3.00	2.98	2.98
FM	1.11	4.92	2.72	2.93	2.85	2.93	2.86	2.86

IC2 (LC72131D/N)

PIN'SNUMBER	1	2	3	4	5	6	7	8	9	10	11
FM	2.3	0	0	0	0	4.92	0	1.15	2.07	0	1.30
PIN'SNUMBER	12	13	14	15	16	17	18	19	20	21	22
FM	0	1.20	0	0	2.31	4.67	0.90	0.90	3.12	0	2.28

IC701 (TA8227P)

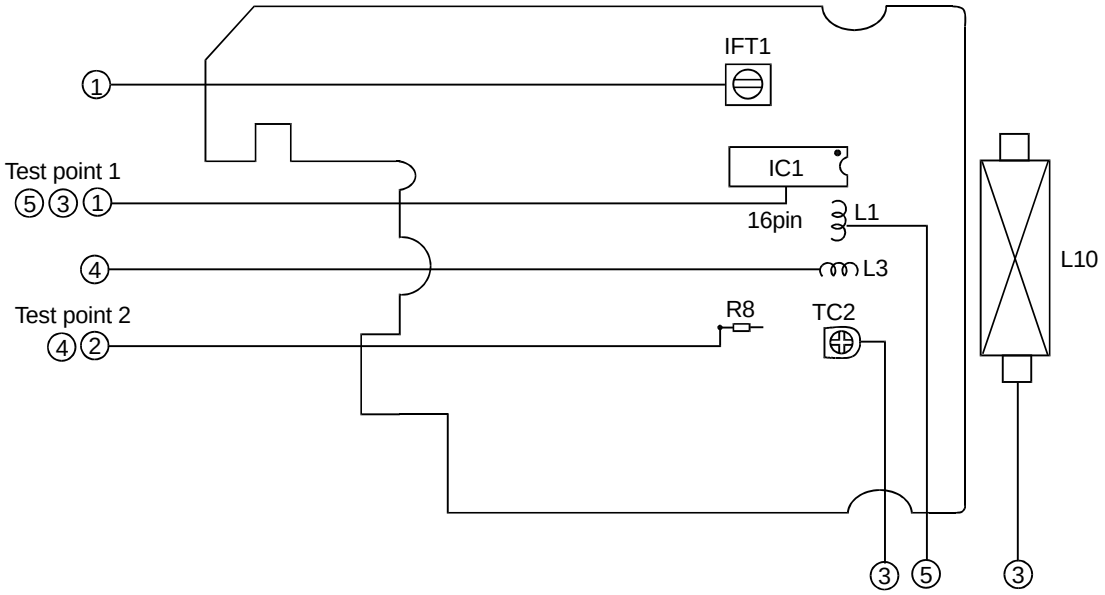
PIN'SNUMBER	1	2	3	4	5	6
FM	8.09	4.13	7.75	0	0.58	0
PIN'SNUMBER	7	8	9	10	11	12
FM	0	0.58	4.58	7.76	4.17	8.09

TRANSISTORS	Q6(A1015)			Q9(C1815)		
	E	C	B	E	C	B
AM	4.80	4.74	4.05	3.18	4.74	3.87
FM	4.78	4.71	4.03	3.14	4.71	3.85

TRANSISTORS	Q10(C1815)			Q1(C1923)		
	E	C	B	E	C	B
AM	2.50	3.10	3.10	1.82	2.94	2.52

TRANSISTORS	Q805(C1815)			Q806(C1815)			Q807(A1015)		
	E	C	B	E	C	B	E	C	B
FM	4.8	8.1	5.5	5	9.6	5.66	8.8	4.97	8.76
TRANSISTORS	Q808(C1815)			Q809(C1815)			Q302(A1015)		
	E	C	B	E	C	B	E	C	B
FM	0	4.53	0	0	0	0.57	8.8	4.97	8.76
TRANSISTORS	Q801(B1566)			Q802(C1815)			Q803(C1815)		
	E	C	B	E	C	B	E	C	B
FM	14.26	8.09	13.5	0	13.5	0.6	0	0	0.73
TRANSISTORS	Q804(C1815)			Q301(C1815)					
	E	C	B	E	C	B			
FM	0	0.6	0.64	2.43	5.7	3.15			

MAIN C.B



1. AM IF Adjustment
   Testpoint: IC1 (TA2104AN) 16PIN
   Adjustment location: IFT1
   IFT1 ..... 450kHz

2. AM Frequency Range Adjustment
   Testpoint: R8
   Set the frequency to be 530kHz and observe the test point voltage.
   It should be 0.9~1.2V.
   Change the frequency to be 1710kHz
   and observe the test point voltage. It should be less than 7 V.

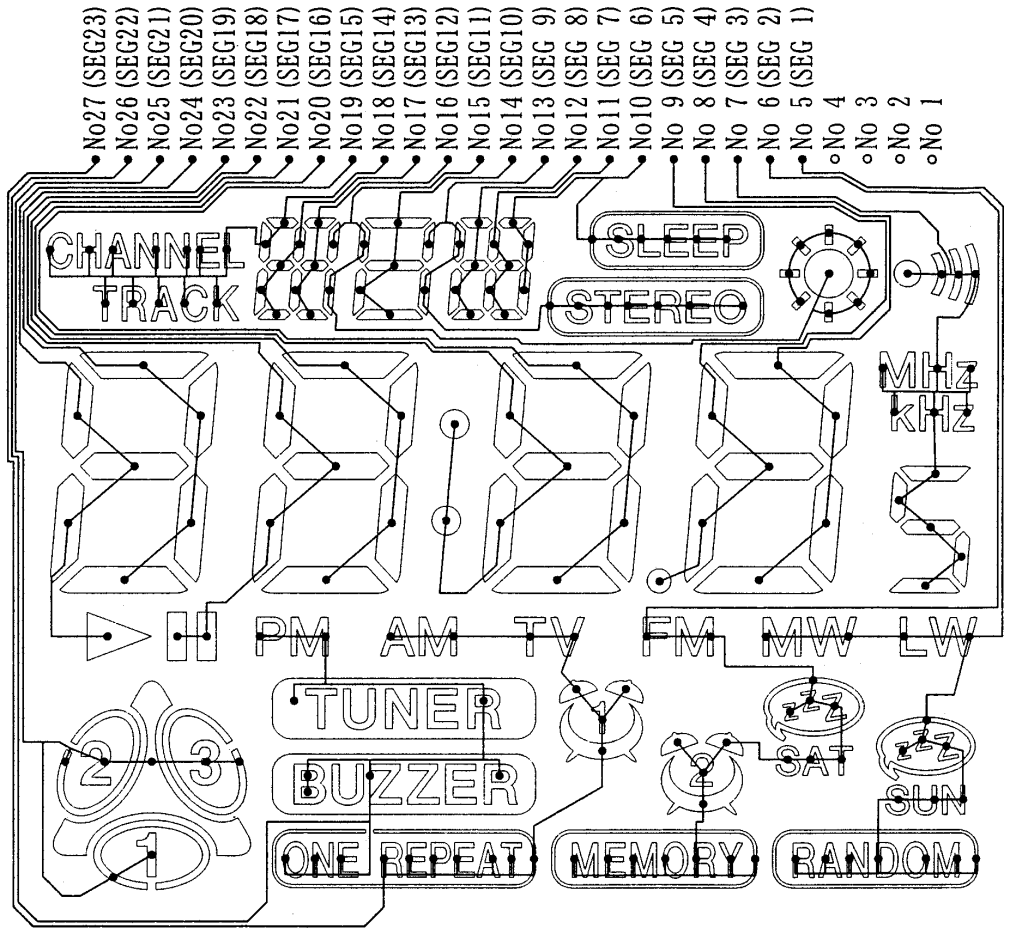
3. AM Tracking Adjustment
   Testpoint: IC1 (TA2104AN)16PIN
   Adjustmentlocation:L10, TC2
   L10 ..... 600kHz
   TC2 ..... 1400kHz

4. FM Frequency Range Adjustment
   Testpoint: R8
   Adjustment location: L3
   Setthe frequency to be 87.5 MHz then test the voltage.
   Adjust L3 so that test point voltage is 1.5 ± 0.05 V.
   Change the frequency to be 108 MHzand observe the test point voltage.
   It should be less than 4 V.

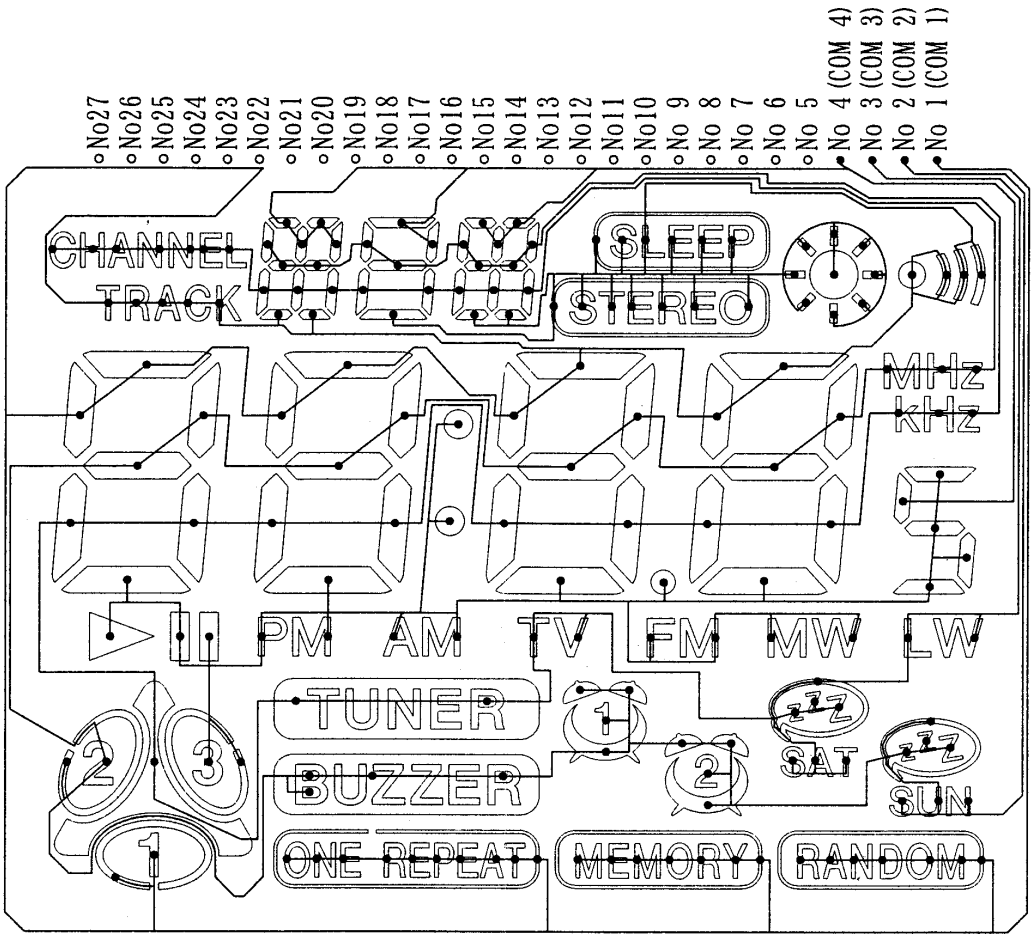
5. FM Tracking Adjustment
   Testpoint: IC1 (TA2104AN) 16PIN
   Adjustmentlocation: L1
   L1 ..... 88MHz

LCD DISPLAY -1/1 (N-04D-32)

SEGMENT

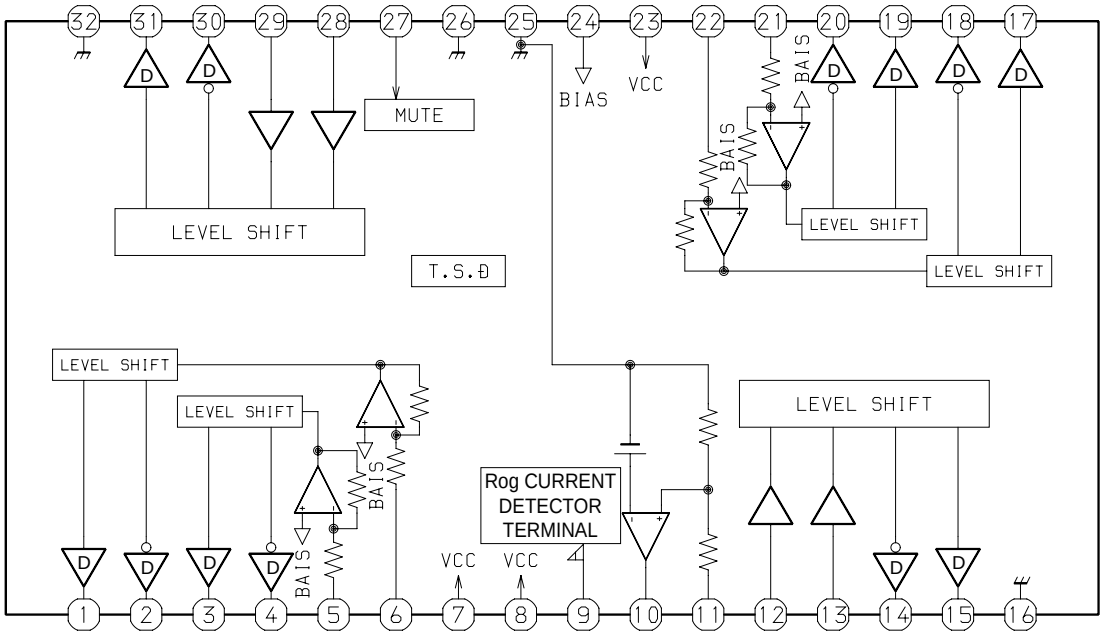


COMMON

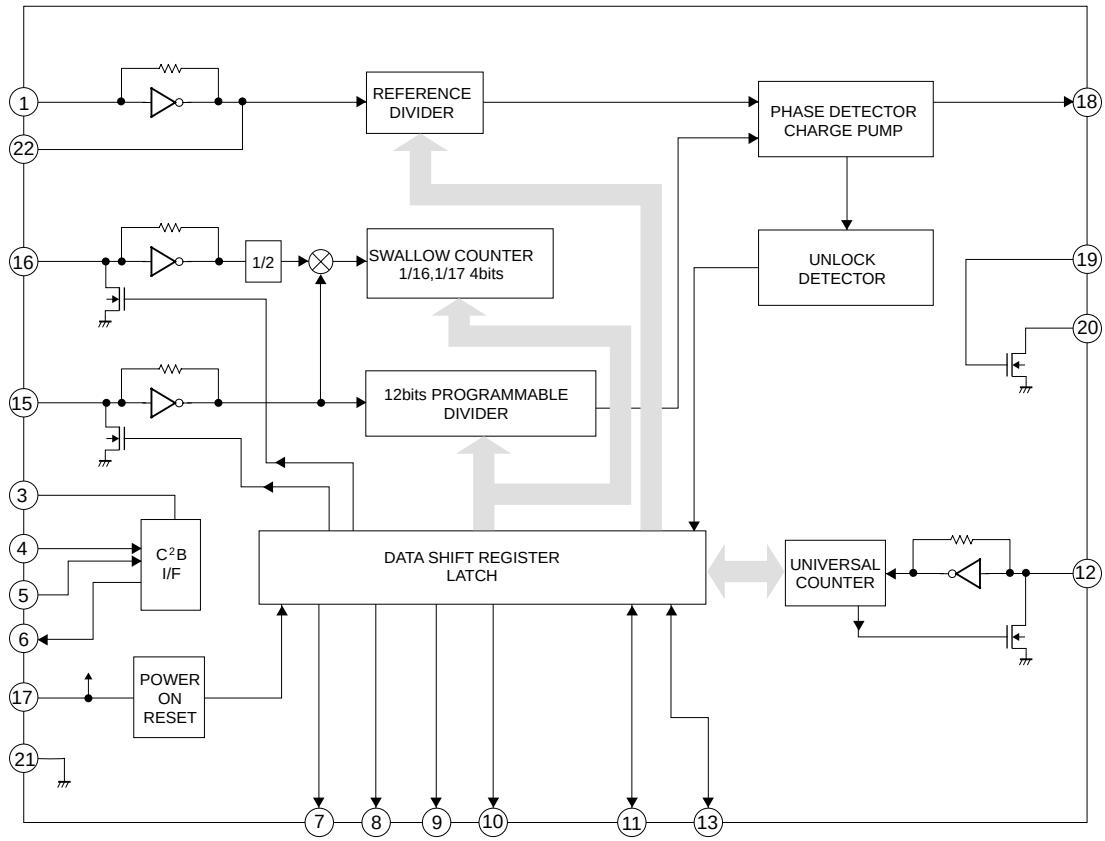


IC BLOCK DIAGRAM -1/3

IC, BA5936S

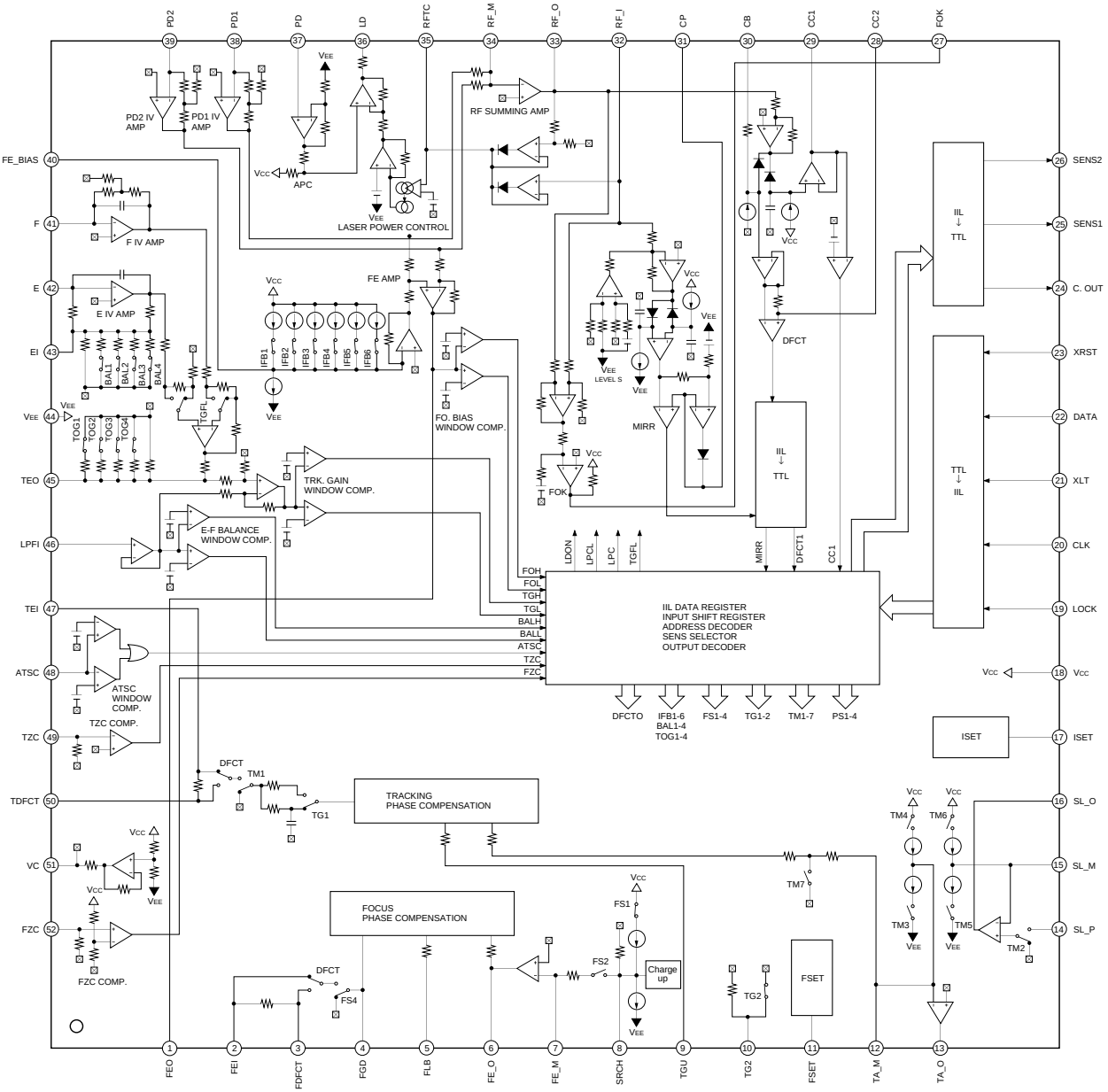


IC, LC72131D

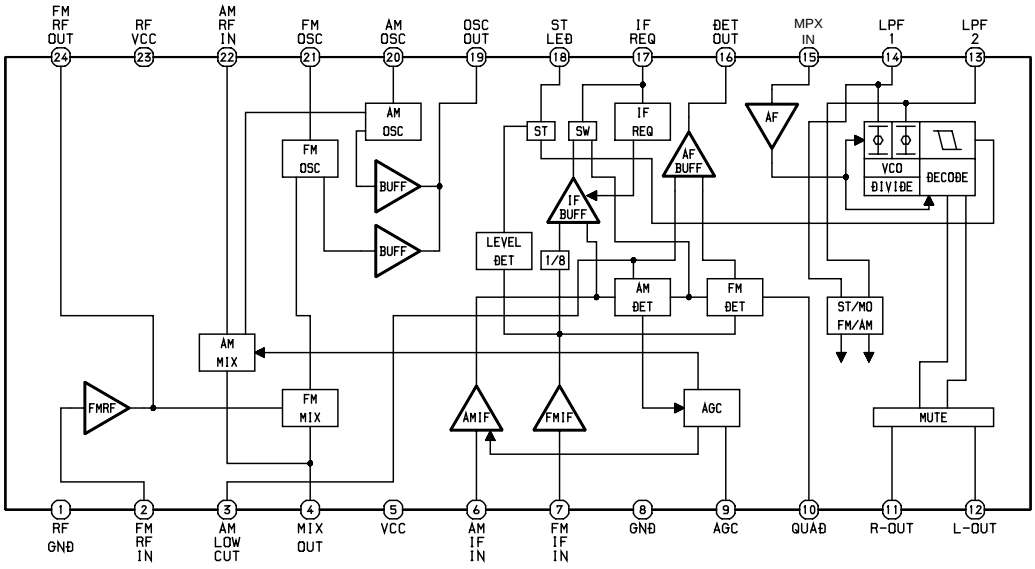


IC BLOCK DIAGRAM -2/3

IC, CXA1992AR

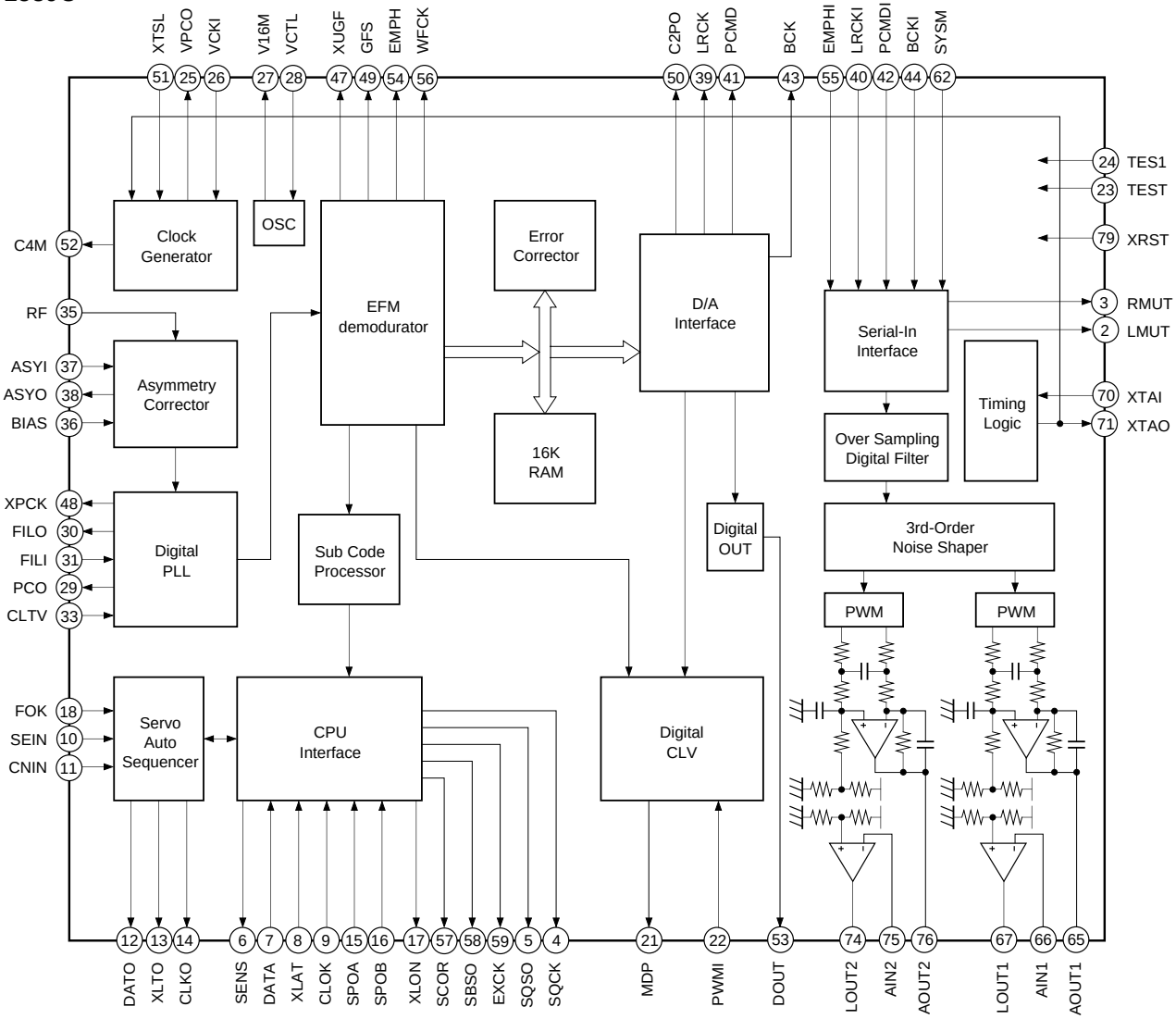


IC, TA2104AN

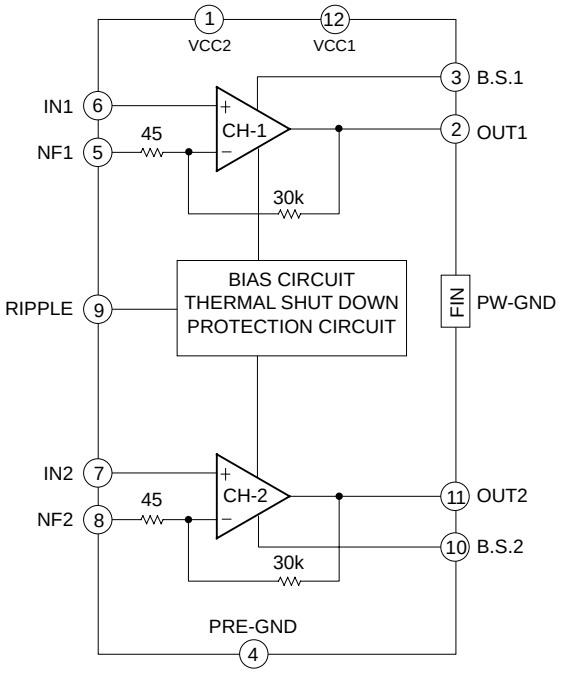


IC BLOCK DIAGRAM -3/3

IC, CXD2589O



IC, TA8227P

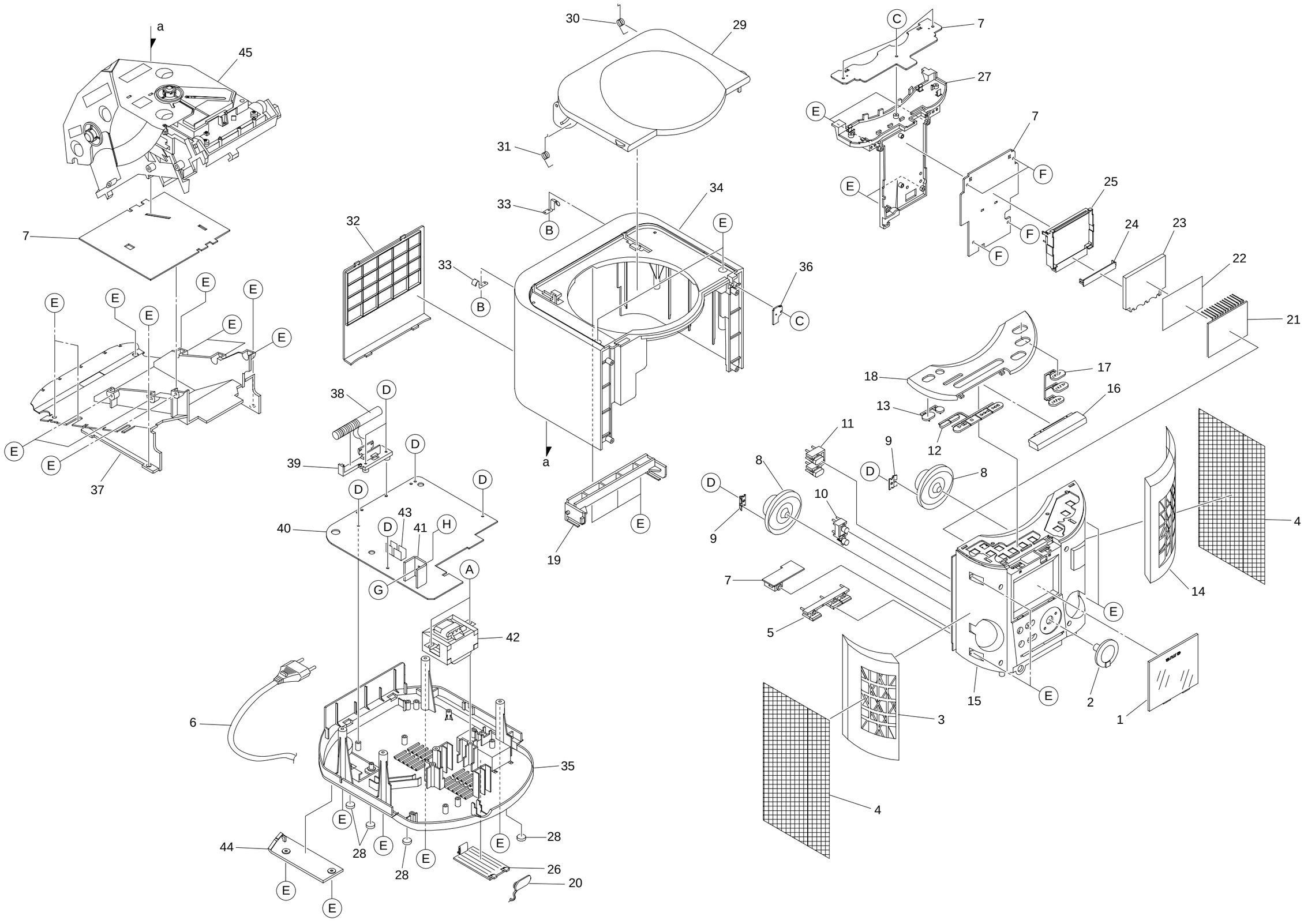


IC DESCRIPTION -1/1 (LC877348A5Z52)-1/2

Pin No.	Pin Name	I/O	Description
1	LD-MOT-FWD	O	CD mechanic changer control output motor control
2	LD-MOT-REV	O	CD mechanic changer control output motor control
3	CLOCK	I/O	CD control serial port
4	XLAT	I/O	CD control serial port
5	DATA	I/O	CD control serial port
6	SENS	I/O	CD control serial port
7	SQSO	I/O	CD control serial port
8	SQCK	I/O	CD control serial port
9	CD-RW	O	CD-R/W change output
10	BZ-OUT	O	Buzzer sound output
11	RESET	I	System reset
12	XT1	I	Oscillation
13	XT2	O	Oscillation
14	GND	-	GND
15	CF1	I	Oscillation
16	CF2	O	Oscillation
17	VDD1	-	VDD1
18	CK-SHIFT	O	Oscillation frequency change terminal
19	ATT1	O	Buzzer sound control terminal
20	ATT2	O	Buzzer sound control terminal
21	N.C	-	Not connected
22	TU-ON	O	Tuner power source. At the time of tuner Lo
23	STEREO	I	FM stereo detection. At the time of stereo Lo
24	BACK-LIGHT	O	LCD back light output
25	N.C	I/O	Not connected
26	LV-SENS	I	Power failure detection. When having a power failure Lo
27	STEP	I	AM step change
28	RESTRICT-SENS	I	CD mechanic restrict detection terminal
29	REMOCON	I	Remote control input
30	LW	I	TV LW selection change
31	POWER KEY	I	POWER button input terminal (Lo active)
32	FUNCTION KEY	I	FUNCTION button input terminal (Lo active)
33	BAND KEY	I	BAND button input terminal (Lo active)
34	MODE KEY	I	MODE button input terminal (Lo active)
35	PLAY/PAUSE KEY	I	PLAY/PAUSE button input terminal (Lo active)
36	STOP KEY	I	STOP button input terminal (Lo active)
37	REW KEY	I	REW button input terminal (Lo active)
38	FF KEY	I	FF button input terminal (Lo active)
39	CD1 KEY	I	CD1 button input terminal (Lo active)
40	CD2 KEY	I	CD2 button input terminal (Lo active)
41	CD3 KEY	I	CD3 button input terminal (Lo active)
42	SNOOZE KEY	I	SNOOZE button input terminal (Lo active)

<table>
<tr><th>Pin No.</th><th>Pin Name</th><th>I/O</th><th>Description</th></tr>
<tr><td>43</td><td>ALARM1 KEY</td><td>I</td><td>ALARM1 button input terminal (Lo active)</td></tr>
<tr><td>44</td><td>ALARM2 KEY</td><td>I</td><td>ALARM2 button input terminal (Lo active)</td></tr>
<tr><td>45</td><td>UP KEY</td><td>I</td><td>UP button input terminal (Lo active)</td></tr>
<tr><td>46</td><td>DOWN KEY</td><td>I</td><td>DOWN button input terminal (Lo active)</td></tr>
<tr><td>47</td><td>SET KEY</td><td>I</td><td>SET button input terminal (Lo active)</td></tr>
<tr><td>48</td><td>SLEEP KEY</td><td>I</td><td>SLEEP button input terminal (Lo active)</td></tr>
<tr><td>49</td><td>WEEKEND-SKIP KEY</td><td>I</td><td>WEEKEND-SKIP button input terminal (Lo active)</td></tr>
<tr><td>50</td><td>N.C</td><td>-</td><td>Not connected</td></tr>
<tr><td>51</td><td>N.C</td><td>-</td><td>Not connected</td></tr>
<tr><td>52</td><td>ARE1</td><td>I</td><td>Reception area change 1</td></tr>
<tr><td>53</td><td>ARE2</td><td>I</td><td>Reception area change 2</td></tr>
<tr><td>54</td><td>VDD2</td><td>-</td><td>VDD3</td></tr>
<tr><td>55</td><td>GND</td><td>-</td><td>GND</td></tr>
<tr><td>56</td><td>N.C</td><td>-</td><td>Not connected</td></tr>
<tr><td>57 ~ 79</td><td>SEG23 ~ SEG1</td><td>O</td><td>LCD segment</td></tr>
<tr><td>80</td><td>V3</td><td>-</td><td>LCD bias3</td></tr>
<tr><td>81</td><td>V2</td><td>-</td><td>LCD bias2</td></tr>
<tr><td>82</td><td>V1</td><td>-</td><td>LCD bias1</td></tr>
<tr><td>83</td><td>COM4</td><td>-</td><td>LCD common 4</td></tr>
<tr><td>84</td><td>COM3</td><td>-</td><td>LCD common 3</td></tr>
<tr><td>85</td><td>COM2</td><td>-</td><td>LCD common 2</td></tr>
<tr><td>86</td><td>COM1</td><td>-</td><td>LCD common 1</td></tr>
<tr><td>87</td><td>STKR1</td><td>I</td><td rowspan="2">CD Stocker detection<table><tr><td>ON: Lo</td><td>Stocker1</td><td>Stocker2</td><td>Stocker3</td><td>Rotary middle</td></tr><tr><td>SW2</td><td>ON</td><td>ON</td><td>OFF</td><td>OFF</td></tr><tr><td>SW3</td><td>ON</td><td>OFF</td><td>ON</td><td>OFF</td></tr></table></td></tr>
<tr><td>88</td><td>STKR2</td><td>I</td></tr>
<tr><td>89</td><td>GND</td><td>-</td><td>GND</td></tr>
<tr><td>90</td><td>VDD3</td><td>-</td><td>VDD3</td></tr>
<tr><td>91</td><td>CLMP</td><td>I</td><td>CD mechanic clamp detection terminal (SW1 ON: Lo) Play:ON,Middle:OFF</td></tr>
<tr><td>92</td><td>DOOR-OPEN</td><td>I</td><td>CD door detection terminal (CD ON:Hi)</td></tr>
<tr><td>93</td><td>CD-ON</td><td>O</td><td>At the time of the CD function it outputs the Hi</td></tr>
<tr><td>94</td><td>DO</td><td>I/O</td><td>Tuner control serial port</td></tr>
<tr><td>95</td><td>CE</td><td>I/O</td><td>Tuner control serial port</td></tr>
<tr><td>96</td><td>CL</td><td>I/O</td><td>Tuner control serial port</td></tr>
<tr><td>97</td><td>DI</td><td>I/O</td><td>Tuner control serial port</td></tr>
<tr><td>98</td><td>MUTE</td><td>O</td><td>MUTING output</td></tr>
<tr><td>99</td><td>POWER-ON</td><td>O</td><td>POWER ON output. ON: Hi</td></tr>
<tr><td>100</td><td>MOT-V CONT</td><td>O</td><td>CD mechanic changer motor torque UP output</td></tr>
</table>

MECHANICAL EXPLODED VIEW -1/1



MECHANICAL PARTS LIST -1/1

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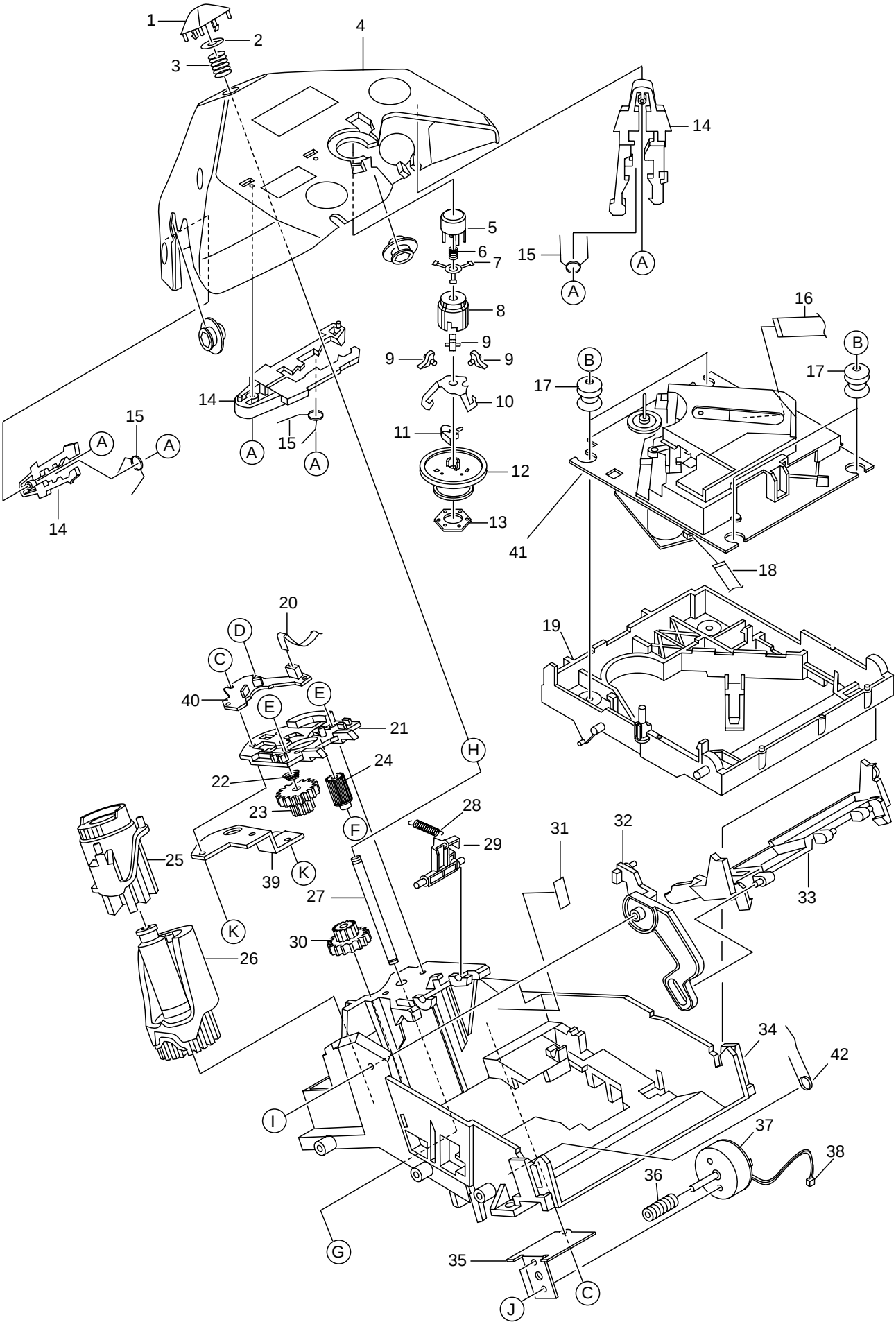
UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL FR-TC5000 UCSC	FR-TC5500 USC
		O	MC1001	8C-RD2-011-010	WINDOW,FR	a	.
		O	MC1001	8C-RD2-031-010	WINDOW,FR (5500)	.	b
		O	MC1002	8C-RD2-012-010	KNOB,VOL	a	.
		O	MC1002	8C-RD2-032-010	KNOB,VOL (5500)	.	b
		O	MC1003	8C-RD2-010-010	GRILL,SPEAKER (L)	a	.
		O	MC1003	8C-RD2-042-010	GRILL,SPEAKER (L) (5500)	.	b
		X	MC1004	S0-052-000-000	CLOTH,SPKR	a	.
		X	MC1004	S0-RC7-180-000	CLOTH,SPKR RNEY CHANG	.	b
		O	MC1005	8C-RD2-014-010	KNOB,SET/SLP/WE SET	a	.
		O	MC1005	8C-RD2-034-010	KNOB,SET/SLP/WE SET 5500	.	b
	!	O	MC1006	S1-171-201-100	CORD,POWER 6.5	a	b
		X	MC1007	S0-0CR-D25-000	PWB,CRD2-01-02,03,04,05,06	a	.
		X	MC1007	S0-0CR-D25-010	PWB,CRD2-02-02,03,04,05,06	.	b
		O	MC1008	87-A92-382-010	SPK,8OHM 2W	a	b
		O	MC1009	8C-RD2-206-010	FRAME,SPKR	a	b
		O	MC1010	8C-RD2-019-010	BTN,ALARM	a	.
		O	MC1010	8C-RD2-039-010	BTN,ALARM (5500)	.	b
		O	MC1011	8C-RD2-013-010	BTN,FREQ	a	.
		O	MC1011	8C-RD2-033-010	BTN,FREQ (5500)	.	b
		O	MC1012	8C-RD2-016-010	BTN,BAND/MO/PL	a	.
		O	MC1012	8C-RD2-036-010	BTN,BAND/MO/PL (5500)	.	b
		O	MC1013	8C-RD2-015-010	BTN,POW/FUNC	a	.
		O	MC1013	8C-RD2-035-010	BTN,POW/FUNC (5500)	.	b
		O	MC1014	8C-RD2-009-010	GRILL,SPEAKER (R)	a	.
		O	MC1014	8C-RD2-041-010	GRILL,SPEAKER (R) (5500)	.	b
		O	MC1015	8C-RD2-001-010	CABI,FRONT (U)	a	.
		O	MC1015	8C-RD2-023-010	CABI,FRONT (5500U)	.	b
		O	MC1016	8C-RD2-018-010	BTN,SNOOZE	a	.
		O	MC1016	8C-RD2-038-010	BTN,SNOOZE (5500)	.	b
		O	MC1017	8C-RD2-017-010	BTN,CD	a	.
		O	MC1017	8C-RD2-037-010	BTN,CD (5500)	.	b
		O	MC1018	8C-RD2-004-010	PANEL,TOP	a	.
		O	MC1018	8C-RD2-029-010	PANEL,TOP (5500)	.	b
		O	MC1019	8C-RD2-202-010	FRAME,CD HINGE	a	b
		O	MC1020	S7-RU5-000-000	BATT,SNAP “T” TYPE	a	b
		O	MC1021	8C-RD2-609-010	LCD,N-04D-32	a	b
		X	MC1022	8C-RD2-209-010	SH,REFLECTION	a	b
		O	MC1023	8C-RD2-207-010	PLATE,REFLECTION	a	b
		O	MC1024	8C-RD2-204-010	COVER,LED	a	b
		X	MC1025	8C-RD2-203-010	HLDR,LCD	a	b
		O	MC1026	8C-RD2-007-010	LID,BATTERY	a	.
		O	MC1026	8C-RD2-028-010	LID,BATTERY (5500)	.	b
		O	MC1027	8C-RD2-201-010	FRAME,FRONT	a	b
		O	MC1028	8C-RD2-208-010	FOOT RUBBER	a	b
		O	MC1029	8C-RD2-003-010	LID,CD	a	.
		O	MC1029	8C-RD2-026-010	LID,CD (5500)	.	b
		O	MC1030	8C-RD2-210-010	SPR-T,LID CD (R)	a	b
		O	MC1031	8C-RD2-211-010	SPR-T,LID CD (L)	a	b
		O	MC1032	8C-RD2-006-010	LID,REAR	a	.
		O	MC1032	8C-RD2-027-010	LID,REAR (5500)	.	b
		O	MC1033	SC-RD2-320-000	SPR-P,LID CD	a	b
		O	MC1034	8C-RD2-002-010	CABI,TOP (U)	a	.
		O	MC1034	8C-RD2-024-010	CABI,TOP (5500)	.	b
		X	MC1035	8C-RD2-005-010	CABI,BOTTOM (U)	a	.
		X	MC1035	8C-RD2-025-110	CABI,BOTTOM (5500)	.	b
		X	MC1036	S0-0CR-D21-000	PWB,CRD2-01-01 137x160.9x1.6	a	b
		O	MC1037	8C-RD2-200-010	FRAME,MECHA	a	b
		O	MC1038	SA-RU2-616-010	FERRI,BAR 10-70MM	a	b
		O	MC1039	8C-RD2-205-010	HLDR,BAR ANT	a	b
		X	MC1040	S0-0CR-D22-000	PWB,CRD2-01-01 195x330x1.6	a	.
		X	MC1040	S0-0CR-D22-010	PWB,CRD2-02-01 195x330x1.6	.	b
		O	MC1041	S0-CDG-740-000	HEAT SINK CDG-74 T=2.0mm ALUM	a	b
	!	O	MC1042	8C-RD2-635-010	PT,120V UL	a	b
		X	MC1043	S3-838-000-000	HEAT SINK	a	b
		O	MC1044	8C-RD2-008-010	AC CORD PLATE COVER	a	.
		O	MC1044	8C-RD2-030-010	AC CORD PLATE COVER (5500)	.	b
		X	MC1045	M8-BZG-495-070	BZG-4 AB2NC1	a	b
		O	MC1A	87-661-097-410	SCREW ST3-12	a	b
		O	MC1B	87-342-073-210	SCREW,ST2.6-6MM	a	b
		X	MC1C	87-261-075-010	SCREW,ST2.6-10MM BB	a	b
		O	MC1D	87-741-096-410	SCREW,ST3-10MM HEAD V5.9-6.3	a	b
		O	MC1E	87-751-097-410	SCREW ST3-12MM HEAD	a	b
		O	MC1F	87-751-074-410	SCREW,ST 2.6-8	a	b
		O	MC1G	87-261-095-410	V+3-8	a	b
		O	MC1H	S6-CS3-217-010	NUT M3x0.5 PITCH Ni	a	b

COLOR NAME TABLE -1/1

Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
B	Black	C	Cream	D	Orange
G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange	GM	Metallic Green
YM	Metallic Yellow	DM	Metallic Orange	PT	Transparent Pink
LA	Aqua Blue	GL	Light Green	HT	Transparent Gray
HM	Metallic Gray	NH	Champagne Gold	M	Wood Pattern

CD MECHANISM EXPLODED VIEW -1/2 <BZG-4 AB2NC1>



CD MECHANISM PARTS LIST -1/2 <BZG-4 AB2NC1>

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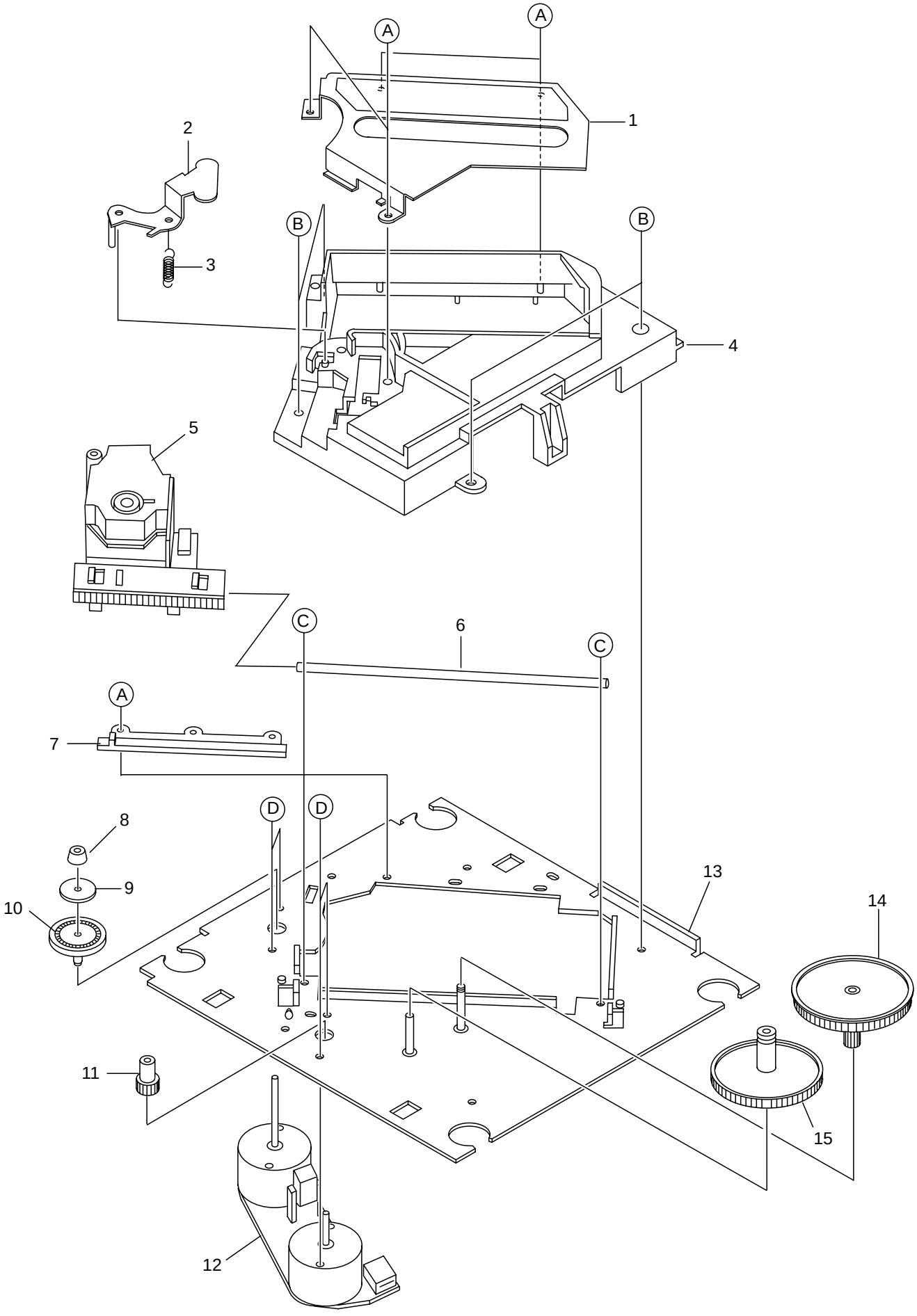
UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL
						BZG-4 AB2NC1
		O	SC1001	8B-ZG4-258-010	CAP,TT	a
		O	SC1002	8B-ZG4-252-010	W-P,3.2-10-0.5 SLIT	a
		O	SC1003	8B-ZG4-250-010	SPR-C,TT BH	a
		O	SC1004	8B-ZG4-202-010	TURN TABLE,BH	a
		O	SC1005	8B-ZG4-225-010	CAP,CD A	a
		O	SC1006	8B-ZG4-237-010	SPR-C,CAP	a
		O	SC1007	8B-ZG4-234-010	CAP,CD C	a
		O	SC1008	8B-ZG4-226-010	CAP,CD B	a
		O	SC1009	8B-ZG4-223-010	LEVER,HOOK	a
		O	SC1010	8B-ZG4-240-010	SPR-P,HOOK	a
		O	SC1011	8B-ZG4-228-010	SPR-P,CAP	a
		O	SC1012	8B-ZG4-211-010	TURN TABLE,BC	a
		O	SC1013	8B-ZG4-213-010	PLATE,CHUCK	a
		O	SC1014	8B-ZG4-206-010	LEVER,LOCK TT	a
		O	SC1015	8B-ZG4-248-010	SPR-T,LOCK TT	a
		O	SC1016	8B-ZG4-604-010	FF-CABLE,16P 1.0 220MM	a
		O	SC1017	8A-ZG1-204-010	CUSHION,CD880BRN	a
		O	SC1018	88-906-121-110	FF-CABLE,6P	a
		O	SC1019	8B-ZG4-241-010	HLDR,MECHA HORIZ	a
		O	SC1020	8B-ZG4-602-010	FF-CABLE,4P 1.0 220MM	a
						BZG-4 AB2NC1
		O	SC1021	8B-ZG4-221-010	PLATE,GEAR	a
		O	SC1022	8B-ZG4-259-010	SPR-C,GB	a
		O	SC1023	8B-ZG4-218-110	GEAR,B	a
		O	SC1024	8B-ZG4-219-010	GEAR,C	a
		O	SC1025	8B-ZG4-230-010	CAM,MAIN A2	a
		O	SC1026	8B-ZG4-231-010	CAM,MAIN B2	a
		O	SC1027	8B-ZG4-208-010	SHAFT,CTR	a
		O	SC1028	8B-ZG4-236-010	SPR-E,CAM LOCK	a
		O	SC1029	8B-ZG4-222-010	LEVER,CAM LOCK	a
		O	SC1030	8B-ZG4-217-010	GEAR,A	a
		X	SC1031	8B-ZG4-255-010	SH, 6-15-0.15	a
		O	SC1032	8B-ZG4-215-010	LEVER,M UP	a
		O	SC1033	8B-ZG4-216-010	LEVER,M LOCK	a
		O	SC1034	8B-ZG4-201-010	BASE,	a
		O	SC1035	8B-ZG4-229-010	HLDR,MOT	a
		O	SC1036	8B-ZG4-220-010	GEAR,MOT	a
		O	SC1037	87-045-305-010	MOT,RF-500TB	a
		O	SC1038	8B-ZG4-601-010	F-CABLE,2P 120MM	a
		O	SC1039	8B-ZG4-235-010	PLATE,HOLD	a
		X	SC1040	8B-ZG4-612-010	PWB,SW BZG4	a
						BZG-4 AB2NC1
		X	SC1041	M8-BZG-D91-040	BZG-D YB1NF	a
		O	SC1042	8B-ZG4-254-010	SPR-T,HLDR M	a
		O	SC1A	8B-ZG4-249-010	S-SCREW,LOCK TT S	a
		O	SC1B	8B-ZG4-260-010	S-SCREW,DAMPER 2	a
		O	SC1C	87-751-073-410	VT2+2.6-6 W/O SLOT	a
		O	SC1D	87-B10-409-010	VFT2+2-5	a
		O	SC1E	87-751-096-410	VT2+3-10 W/O SLOT	a
		O	SC1F	8B-ZG4-265-010	W-L,2.16-4-0.25 SLIT	a
		O	SC1G	8B-ZG4-261-010	W-L,3.6-6-0.5 C-CUT	a
		O	SC1H	8B-ZG4-264-011	W-L,4.2-9-0.125	a
		O	SC1I	8B-ZG4-251-010	S-SCREW,M UP	a
		O	SC1J	87-251-070-410	U+2.6-3	a
		O	SC1K	87-B10-401-010	VT2+2-5 W/O SLOT BLK	a

CD MECHANISM EXPLODED VIEW -2/2 <BZG-D YB1NF>



CD MECHANISM PARTS LIST -2/2 <BZG-D YB1NF>

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UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL
						BZG-D YB1NF
		O	SC2001	8B-ZGD-216-010	PLATE,DECO2	a
		O	SC2002	8B-ZGD-209-110	LEVER,SHUTTER	a
		O	SC2003	8B-ZGD-211-110	SPR-E,SHUTTER	a
		O	SC2004	8B-ZGD-213-110	HLDR,DECO	a
		O	SC2005	M8-BZL-590-040	BZL-5 A1NF	a
		O	SC2006	83-ZG2-253-110	SHAFT,SLIDE 5	a
		O	SC2007	8B-ZGD-208-010	PLATE,GUIDE	a
		O	SC2008	8B-ZGD-217-010	CAP,MAGNET	a
		O	SC2009	8B-ZG4-212-010	MAGNET,G4	a
		O	SC2010	8B-ZG4-210-110	PULLEY,SP	a
		O	SC2011	83-ZG2-236-010	GEAR,MOTOR 3	a
		X	SC2012	8B-ZGD-602-010	PWB,DRIVE BZGD	a
		O	SC2013	8B-ZGD-214-010	CHAS ASSY,MAIN HORIZ	a
		X	SC2013a	8B-ZGD-210-010	CHAS,MAIN HORIZ	a
		X	SC2013b	8B-ZGD-203-010	SHAFT,GEAR A	a
		X	SC2013c	8B-ZGD-204-010	SHAFT,GEAR B	a
		O	SC2014	8B-ZGD-207-010	GEAR,B	a
		O	SC2015	8B-ZGD-206-010	GEAR,A	a
		O	SC2A	87-067-644-010	VTT+1.7-4 BLK	a
		O	SC2B	87-067-421-010	VTT+2-4	a
						BZG-D YB1NF
		O	SC2C	8B-ZGD-215-010	S-SCREW,GUIDE	a
		O	SC2D	87-261-032-210	V+2-3	a

OTHER PARTS LIST -1/1

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UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL FR-TC5000 UCSC	FR-TC5500 USC
		X		87-B50-054-010	CARD WARRANTY	a	b
		X		87-B50-107-010	CAUTION SAFETY SHEET (UL1492)	a	b
		X		87-B40-282-010	LABEL,BAR CODE	a	b
		X		8C-RD2-970-010	LABEL,POP (U)	a	b
		X		84-711-909-010	LBL,CODE DATE	a	b
		X		87-051-183-010	POLY BAG 0.045-3.25-11.5	a	b
		X		87-B40-085-010	POLY BAG 0.045-8.5-14	a	b
		X		8C-RD2-851-010	POLYFOAM CRD2-90 #2704	a	b
		X		8C-RD2-852-010	G/B,(UCS)	a	.
		X		8C-RD2-020-010	LABEL,SPEC (U)	a	.
		X		87-B50-098-010	WARR-CARD,C(E)	a	.
		X		87-B50-099-010	WARR-CARD,C(F)	a	.
		X		SC-RD2-970-000	POLYTHENE FOAM CUSHION S:55x5	.	b
		X		8C-RD2-862-010	G/B,(5500USC)	.	b
		X		8C-RD2-040-010	LABEL,SPEC (5500U)	.	b
		X		SC-RD2-950-200	SH,CAUTION	.	b
		X		8C-RD2-216-010	SH,BTN	a	b
		X		S0-019-000-000	EYELET	a	b
		X		8C-RD2-213-010	SH,LID CD (B)	a	b
		X		8C-RD2-215-010	SH,SPR-P LID CD	a	b
		X		8C-RD2-217-010	SH,BOTM	a	b
		X		S0-002-000-000	JOINT,WIRE IN/CLIP	a	b
		X		8C-RD2-212-010	SH,LID CD (A)	a	b
		X		S9-938-560-000	SPK. BOX FELT 80x8x0.3mm, 993	.	b

SERVICE PRECAUTIONS -1/2

1. Disassembly Procedure

1. Remove 4 screws of a main part bottom.
2. Remove 2 screws of a inside CD lid (No-1 portion of Photo-1).
3. The speaker net left and right is removed, left and right each 2 screws are removed. (No-2 portion of Photo-1)
   Reference Photo-1

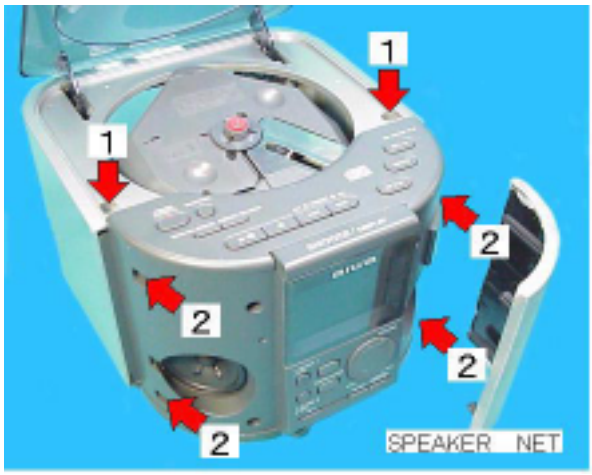


Photo-1

2. Service Position

1. When Checking CD main circuit board.
   Remove 6 screws (Photo-2, No-1) , remove the CD Mechanism and you verify when it is stabilized.
2. When CD Mechanism Assy is taken out.
   Remove 6 screws (Photo-2, No-2) and remove 1 screw of a substance bottom central and the Mechanism is removed.
   Reference Photo-2

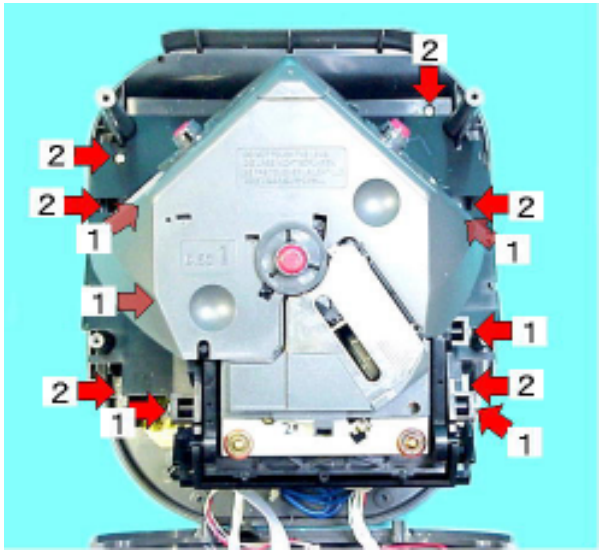


Photo-2

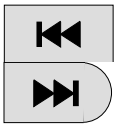
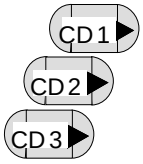
3. Test Mode

1. CD test mode starting method
   While pushing the FUNCTION button of the substance,insert the AC plug in the power source electrical outlet.
   Test mode starts and the DYISPLAY lights up all.
   Reference Photo-3

Photo-3

2. CD test mode cancellation method
   Push the Power button and turn off a power supply.
   Push the FUNCTION button again.
   Test mode is canceled by one of methods.

3. CD test mode functional explanation

MODE	Operation Key	Display	Operation	Contents
Start Mode	FUNCTION	All-points light	Test mode starting	
Search Mode		All-points light	All SERVO OFF LASER ON VCC ON	APC circuit check Leather current measurement Focus error waveform check (Notes 1) PU lens repeats full swing operation.
Play Mode		Track No, Disc No, and performance time are displayed.	Normality playback When TOC READ is improper, it is the same operation as search mode.	Focus Servo check Tracking Servo check CLV Servo check Sled Servo check
Traverse Mode		Track No, and performance time are displayed.	Playback pause state (Note 2)	Tracking Servo OFF
STOP		All-points light	Stand by	ALL SERVO OFF LASER ON/OFF
Sled Mode		All-points light	The pickup moves to outer circle. The pickup moves to the inside perimeter.	Sled Servo / Mechanism operation check
DISC Change		All-points light	It changes to specified DISC (Notes 3).	Mechanism operation check

Notes 1: Do not continue operating Search Mode 10 minutes or more continuously for driver IC protection.

Notes 2: When canceling Traverse Mode, the PLAY button is pushed once again.

Notes 3: Operation after Disc Change is equivalent to Play Mode.

アイワ株式会社 〒110-8710 東京都台東区池之端1-2-11 ☎03(3827)3111 (代表)
AIWA CO.,LTD. 2-11, IKENOHATA 1-CHOME, TAITO-KU, TOKYO 110-8710, JAPAN TEL:03 (3827) 3111

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